CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, March 22, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Mar.				
*22	Crematory, etc.	Oswego, N. Y.	P. S. & B. S.	3- 1
22	Elec. light plant.	Bamberg, S. C.	S. & B. S.	3-22
23	Laying c.-i. pipe.	Cincinnati, O.	S. & B. S.	3- 1
24	Turbo alternators.	New York	S.	3- 1
26	Cast-i. pipe, &c.	E. Orange, N. J.	S.	3-15
26	Pump & machy.	E. Orange, N. J.	S.	3-22
28	Paving.	El Paso, Tex.	S. & B. S.	3- 8
29	Sewers.	Boston, Mass.	P. & S.	3-15
*30	Bridge.	Port Huron, Mich.	P. & S.	2-15
*30	Lock gates.	Pittsburg, Pa.	S. & B. S.	3- 1
31	Power house.	New Orleans, La.	S.	3- 8
31	Timber wharf.	Bremerton, Wash.	S.	3- 1
31	Power plant.	New York.	S.	3- 1
31	Quay wall,	Bremerton, Wash.	S.	2-15
Apr.				
*1	Garbage disposal.	Auburn, N.Y.	S.	2-22
*2	Dredging.	Philadelphia, Pa.	S.	3-15
*2	Port works.	Chile	P. & S.	5- 4
3	Suction dredges.	Panama.	S. & B. S.	3-15
5	Wharves.	Manila, P. I.	P. & S.	12-14
7	R. R. track scale.	Portsmth, N.H.	S.	3- 8
*9	Wharf.	Guantanamo, Cuba	P. & S.	2-22
*11	Sewers.	Georgetown, Ky.	S. & B. S.	3- 8
12	Cement.	Glendive, Mont.	S.	3- 8
*12	Dam.	Carlsbad, N. Mex.	P. S. & B. S.	3- 8
*12	Main canal, etc.	Glendive, Mont.	P. S. & B. S.	3- 8
14	Paving.	Green Bay, Wis.	S. & B. S.	3- 8
14	Wharf.	Charleston, S. C.	S.	3-22
*16	Main canal.	Boise, Idaho	P. S. & B. S.	3- 8
16	Light & power plant,	New York.	P. S. & B. S.	2-22
*19	Sewers.	Pensacola, Fla.	P. S. & B. S.	3-22
May				
4	Wharf sheds & Rys.	Manila, P. I.	P. & S.	3- 1

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

Bids close.	Work.	Place.	On file.	See issue.
LIGHT, HEAT AND POWER PLANTS.				
Mar. 22.	Light plant,	Bamberg, S. C.		Mar. 22
Mar. 24.	Power plant,	New York, N. Y.		Mar. 8
Mar. 31.	Power house,	New Orleans, La.		Mar. 8
Apr. 2.	Electric equipment,	New York, N. Y.		Mar. 22
Apr. 4.	Transmission line poles,	Chicago, Ill.		Feb. 8
	Advertised, Eng. News, Feb. 8.			
Apr. 9.	Light & power plant,	Fullerton, Cal.		Mar. 1
Apr. 16.	Light & power plant,	New York, N. Y.		Feb. 22
Apr. 10.	Power plant,	Danville, Pa.		Mar. 22
	Advertised, Eng. News, Mar. 22 and 29.			
Apr. 30.	Power plant for sale,	Erindale, Ont.		Mar. 22
	Advertised, Eng. News, Mar. 22 to Apr. 5.			
No date.	Gas pipe line,	Cincinnati, O.		Feb. 15
No date.	Power plant,	Goodwater, Ala.		Mar. 1
July 5.	Water power for sale,	Kenora, Ont.		Mar. 15
	Advertised, Eng. News, Mar. 15.			
BRIDGES.				
Mar. 22.	Bridges,	Trinidad, Colo.		Mar. 8
Mar. 22.	Bridge,	Gettysburg, Pa.		Mar. 15
Mar. 23.	Bridge,	New York, N. Y.		Mar. 15
Mar. 23.	Bridges,	Bryan, O.		Mar. 8
Mar. 26.	Steel bridges,	Gonzales, Tex.		Mar. 22
Mar. 27.	Draw-bridge,	Odessa, Del.		Mar. 22
Mar. 27.	Concrete bridge,	St. Louis, Mo.		Mar. 22
Mar. 29.	Superstructure,	Dayton, O.		Mar. 15
Mar. 30.	Viaduct,	Columbus, O.		Mar. 15
Mar. 30.	Bridge,	Port Huron, Mich.		Feb. 15
	Advertised, Eng. News, Feb. 15 to Mar. 15.			
Mar. 31.	Bridge,	Custer, S. Dak.		Jan. 25
Apr. 2.	Concrete bridges,	Frankfort, Ind.		Mar. 15
Apr. 3.	Bridges,	Grand Forks, N. Dak.		Mar. 15
Apr. 3.	Bridges,	Crawfordsville, Ind.		Mar. 15
Apr. 3.	Bridge,	Colfax, Wash.		Mar. 1
Apr. 4.	Bridge,	Nevada City, Cal.		Feb. 15
Apr. 4.	Concrete bridge,	Denver, Colo.		Mar. 15
	Advertised, Eng. News, Mar. 15 and 22.			
Apr. 4.	Steel and concrete bridges,	Cleveland, O.		Mar. 22
Apr. 6.	Bridges,	Goldendale, Wash.		Mar. 8
Apr. 10.	Steel bridge,	Coeur D'Alene, Idaho		Mar. 15
Apr. 30.	Iron draw-bridge,	Belzona, Miss.		Mar. 15
	Advertised, Eng. News, Mar. 15 to Apr. 19.			
BUILDINGS.				
Mar. 22.	Vacuum clean'g sys.,	Washington, D. C.		Mar. 8
	Advertised, Eng. News, Mar. 8 and 15.			
Mar. 22.	Building wing,	New York, N. Y.		Mar. 15
Mar. 22.	Boat house,	New York, N. Y.		Mar. 15
Mar. 24.	Church, parish house,	Wilkes-Barre, Pa.		Mar. 15
Mar. 26.	Court-house,	Fresno, Cal.		Feb. 15
Mar. 27.	School,	Madison, Wis.		Mar. 1
Mar. 27.	Wiring,	Ogden, Utah		Mar. 22
	Advertised, Eng. News, Feb. 22 and Mar. 1.			
Mar. 27.	Gymnasium,	Brookline, Mass.		Mar. 22
Mar. 29.	Schools,	Boston, Mass.		Mar. 15
Mar. 30.	School,	Fullerton, Cal.		Feb. 22
Apr. 1.	Laundry,	Warren, O.		Feb. 22
Apr. 2.	Marble, mosaic, tile work,	Chicago, Ill.		Mar. 15
Apr. 3.	Building,	Pierre, S. Dak.		Feb. 15
Apr. 3.	Jail,	Mobile, Ala.		Mar. 8
Apr. 4.	Hospital building,	Utica, N. Y.		Mar. 22
	Advertised, Eng. News, Mar. 22 and 29.			
Apr. 5.	Library,	San Mateo, Cal.		Mar. 22
Apr. 5.	Court-house,	Newton, Kan.		Mar. 15
Apr. 6.	Court-house,	Ocala, Fla.		Mar. 22
Apr. 10.	Hotel,	Fernandina, Fla.		Mar. 22
Apr. 10.	Buildings,	New York, N. Y.		Mar. 15
Apr. 14.	Hospital, storehouse,	Delaware City, Del.		Mar. 22
Apr. 16.	Shelters,	Delaware City, Del.		Mar. 22
	Advertised, Eng. News, Mar. 22 to Apr. 5.			
Apr. 14.	Lighting fixtures,	Cheyenne, Wyo.		Mar. 15
	Advertised, Eng. News, Mar. 15 to 29, Apr. 12			
Apr. 21.	Mech equipment,	Washington, D. C.		Mar. 22
	Advertised, Eng. News, Mar. 22 to Apr. 12.			
Apr. 28.	Building,	Charleston, S. C.		Mar. 22
WATER SUPPLY AND IRRIGATION.				
Mar. 22.	Cast-iron pipe,	Savannah, Ga.		Mar. 22
Mar. 23.	Laying cast-iron pipe,	Cincinnati, O.		Mar. 1
	Advertised, Eng. News, Mar. 1 to 15.			
Mar. 23.	Water system,	Belle Plain, Ind.		Mar. 1
Mar. 23.	Water-works materials,	Altoona, Pa.		Mar. 15
Mar. 25.	Water system,	Wynnewood, Ind. T.		Mar. 15
Mar. 25.	Pipe and valves,	Boulder, Colo.		Mar. 8
Mar. 26.	Pipe, meters, etc.,	Winnipeg, Man.		Mar. 8
	Advertised, Eng. News, Mar. 8 and 15.			
Mar. 26.	Cast-iron pipe,	East Orange, N. J.		Mar. 15
Mar. 26.	Pipe line,	Utica, N. Y.		Mar. 15
	Advertised, Eng. News, Mar. 15.			
Mar. 26.	Water mains,	Fargo, N. Dak.		Mar. 15
Mar. 27.	Meters,	Dayton, O.		Mar. 22
Mar. 27.	Water system,	Ft. Washington, Md.		Mar. 15
Mar. 27.	Water-works & sewer sys.,	Franklin, Va.		Mar. 1
	Advertised, Eng. News, Mar. 1 to 22.			
Mar. 28.	Castings,	Boston, Mass.		Mar. 22
Mar. 29.	Boilers,	Cleveland, O.		Mar. 22
	Advertised, Eng. News, Mar. 22.			
Mar. 29.	Pipe, etc.,	Detroit, Mich.		Mar. 15
	Advertised, Eng. News, Mar. 15 and 22.			
Apr. 2.	Water pipe, etc.,	Cincinnati, O.		Mar. 22
Apr. 3.	Steel tank,	Philippine Islands.		Mar. 15
Apr. 4.	Water mains, etc.,	New York, N. Y.		Mar. 22
Apr. 9.	Cast-iron pipe,	Orange, N. J.		Mar. 22
	Advertised, Eng. News, Mar. 22 and 29.			
Apr. 10.	Laying water mains,	Cincinnati, O.		Mar. 22
Apr. 11.	Intake pipe,	Auburn, N. Y.		Mar. 15
	Advertised, Eng. News, Mar. 15 to Apr. 4.			
Apr. 11.	Water mains,	Salt Lake City, Utah.		Mar. 15
	Advertised, Eng. News, Mar. 15 to 29.			
Apr. 12.	Pump,	Yonkers, N. Y.		Mar. 22
	Advertised, Eng. News, Mar. 22.			
Apr. 13.	Water extension,	Ft. Meyer, Va.		Mar. 22
Apr. 14.	Sewer & water systems,	Honolulu, H. T.		Mar. 15
Apr. 16.	Filter extension,	Columbus, Ind.		Mar. 15
Apr. 16.	Artesian well,	Galesburg, Ill.		Mar. 15
	Advertised, Eng. News, Mar. 15.			
Apr. 16.	Infiltration gallery,	Columbus, Ind.		Mar. 22
	Advertised, Eng. News, Mar. 22.			
Apr. 26.	Engines, etc.,	Philadelphia, Pa.		Mar. 22
	Advertised, Eng. News, Mar. 22 and 29 and Apr. 19.			
SEWERAGE.				
Mar. 22.	Sewers,	Cambridge, O.		Mar. 15
Mar. 24.	Sewers,	Murphysboro, Ill.		Mar. 15
Mar. 25.	Sewers,	Green Bay, Wis.		Feb. 22
Mar. 27.	Sewer system,	Franklin, Va.		Mar. 8
Mar. 28.	Sewers,	New York, N. Y.		Mar. 22
Mar. 29.	Sewers,	Boston, Mass.		Mar. 15
	Advertised, Eng. News, Mar. 15 and 22.			
Mar. 30.	Brick sewers,	Mt. Clemens, Mich.		Mar. 15
Mar. 31.	Sewerage,	Erie, Pa.		Mar. 8
Apr. 2.	Sewers,	McCook, Neb.		Mar. 22
Apr. 2.	Tile sewers,	Cortland, N. Y.		Mar. 22
	Advertised, Eng. News, Mar. 22.			
Apr. 3.	Storm sewer,	Chillicothe, O.		Mar. 15
Apr. 4.	Sewers,	New York, N. Y.		Mar. 22
Apr. 5.	Sewers,	Paterson, N. J.		Mar. 22
Apr. 5.	Trunk sewers,	Salem, Mass.		Mar. 22
	Advertised, Eng. News, Mar. 22 and 29.			
Apr. 5.	Sewer pipe,	Boise City, Idaho		Mar. 22
	Advertised, Eng. News, Mar. 8 to 29.			
Apr. 11.	Pipe sewers,	Salt Lake City, Utah.		Mar. 15
	Advertised, Eng. News, Mar. 15 to 29.			
Apr. 11.	Sewers,	Georgetown, Ky.		Mar. 8
	Advertised, Eng. News, Mar. 8.			
Apr. 19.	Sewers,	Pensacola, Fla.		Mar. 8
May 8.	Sewers,	New Orleans, La.		Mar. 8
	Advertised, Eng. News, Mar. 8 to May 8.			
STREETS AND ROADS.				
Mar. 22.	Road work,	Seattle, Wash.		Mar. 8
Mar. 22.	Paving,	Harlem, Ill.		Mar. 15
Mar. 22.	Paving,	Edwardsville, Ill.		Mar. 15
Mar. 22.	Curbing and paving,	Cambridge, O.		Mar. 15
Mar. 23.	Grading and paving,	New York, N. Y.		Mar. 15
Mar. 23.	Sidewalks,	Des Moines, Ia.		Mar. 15
Mar. 23.	Macadam streets,	Ft. Madison, Ia.		Mar. 22
Mar. 24.	Roads,	New York, N. Y.		Mar. 22
Mar. 24.	Macadam roads,	Youngstown, O.		Mar. 15
Mar. 24.	Road improvements,	East Hampton, N. Y.		Mar. 15
Mar. 24.	Paving, Grand Rapids,	Mich.		Mar. 15
Mar. 25.	Paving, Grand Rapids,	Mich.		Mar. 8
	Advertised, Eng. News, Mar. 8 and 15.			
Mar. 26.	Paving,	Fargo, N. Dak.		Mar. 15
Mar. 26.	Grading & graveling, Grand Rapids,	Mich.		Mar. 22
Mar. 26.	Sidewalks,	Franklin, Va.		Mar. 22
Mar. 27.	Asphalt paving,	New York, N. Y.		Mar. 22
Mar. 27.	Asphalt,	Winnipeg, Man.		Mar. 8
	Advertised, Eng. News, Mar. 8 and 15.			
Mar. 28.	Paving,	El Paso, Tex.		Mar. 8
Mar. 28.	Highway bonds,	Providence, R. I.		Mar. 22
Mar. 28.	Grading and paving,	Cumberland, Md.		Mar. 22
Mar. 29.	Paving,	Ft. Wayne, Ind.		Mar. 15
Mar. 31.	Paving,	Superior, Wis.		Mar. 22
Apr. 2.	Grading and curbing,	Lawrence, Kan.		Mar. 22
Apr. 2.	Macadam road,	Rochester, N. H.		Mar. 22
Apr. 2.	Roads,	Valparaiso, Ind.		Mar. 22
Apr. 2.	Roads,	Brookville, Ind.		Mar. 22
Apr. 2.	Gravel roads,	Greensburg, Ind.		Mar. 22
Apr. 2.	Macadam road,	St. Paul, Minn.		Mar. 22
Apr. 2.	Stone road,	Youngstown, O.		Mar. 22
Apr. 2.	Road work,	Port Gibson, Miss.		Mar. 22
Apr. 2.	Paving,	Columbus, Ga.		Mar. 22
Apr. 2.	Road,	Leavenworth, Wash.		Feb. 8
Apr. 2.	Asphalt paving,	Green Bay, Wis.		Mar. 8
Apr. 3.	Paving,	Auburn, N. Y.		Mar. 22
	Advertised, Eng. News, Mar. 22.			
Apr. 4.	Gravel road,	Paoli, Ind.		Mar. 22
Apr. 4.	Sidewalks and grading,	New York, N. Y.		Mar. 22
Apr. 5.	Sidewalks,	New York, N. Y.		Mar. 22
Apr. 6.	Sidewalk composition,	Holyoke, Mass.		Mar. 22
	Advertised, Eng. News, Mar. 22.			
Apr. 6.	Sidewalks,	Lebanon, O.		Mar. 22
Apr. 4.	Grading,	Newburg, O.		Mar. 15
Apr. 7.	Street improvements,	Stevens Point, Wis.		Mar. 22
Apr. 9.	Road work,	San Francisco, Cal.		Mar. 22
Apr. 9.	Paving,	Binghamton, N. Y.		Mar. 22
	Advertised, Eng. News, Mar. 22 and 29.			
Apr. 10.	Sidewalks,	Opelousas, La.		Mar. 22
Apr. 11.	Cement sidewalks,	Salt Lake City, Utah.		Mar. 15
	Advertised, Eng. News, Mar. 15 to 29.			
Apr. 11.	Grading & paving,	Salt Lake City, Utah.		Mar. 15
	Advertised, Eng. News, Mar. 15 to 29.			
Apr. 12.	Cement,	Brandon, Man.		Mar. 22
Apr. 14.	Paving,	Green Bay, Wis.		Mar. 22
	Advertised, Eng. News, Mar. 22 and 29.			
Apr. 16.	Sidewalks,	Bismark, N. Dak.		Mar. 22
Apr. 17.	Paving,	La Crosse, Wis.		Mar. 22
Apr. 19.	Brick paving,	Paris, Tex.		Mar. 22
	Advertised, Eng. News, Mar. 22.			
MISCELLANEOUS CONTRACTS.				
Mar. 22.	Sprinkling,	New York, N. Y.		Mar. 15
Mar. 22.	R. R. tunnel,	Detroit, Mich.		Mar. 1
Mar. 22.	Garbage crematory,	Oswego, N. Y.		Feb. 22
	Advertised, Eng. News, Feb. 22 to Mar. 15.			
Mar. 23.	Ditch,	Anoka, Minn.		Mar. 15
Mar. 23.	Dredging,	Midland, Ont.		Mar. 22
Mar. 26.	Piers, sheds,	Brunswick, Ga.		Mar. 15
	Advertised, Eng. News, Mar. 15 and 22.			
Mar. 27.	Concrete mixing machine,	Winnipeg, Man.		Mar. 15
	Advertised, Eng. News, Mar. 15.			
Mar. 27.	Dump cars,	Winnipeg, Man.		Mar. 15
	Advertised, Eng. News, Mar. 15.			
Mar. 27.	3,000 tons asphalt,	Winnipeg, Man.		Mar. 15
	Advertised, Eng. News, Mar. 8 and 15.			
Mar. 27.	Cement, Wheeling,	W. Va.		Mar. 1
	Advertised, Eng. News, Mar. 1 to 22.			
Mar. 28.	Dredging,	New Orleans, La.		Mar. 1
	Advertised, Eng. News, Mar. 1 to 22.			
Mar. 28.	Drain,	Knoxville, Ia.		Mar. 8
Mar. 28.	Electric railway,	Altoona, Pa.		Mar. 22
Mar. 30.	Retaining wall,	Indianapolis, Ind.		Mar. 22
Mar. 30.	Spillway,	San Francisco, Cal.		Mar. 1
	Advertised, Eng. News, Mar. 1 to 22.			
Mar. 30.	Lock gates,	Pittsburg, Pa.		Mar. 1
	Advertised, Eng. News, Mar. 1 to 22.			
Mar. 30.	Slip,	Honolulu, H. I.		Mar. 1
Mar. 30.	Railroad tunnel, etc.,	Morehead & North Fork R. R.		Mar. 15
	Advertised, Eng. News, Mar. 15.			
Mar. 31.	Timber wharf,	Bremerton, Wash.		Mar. 1
Mar. 31.	Dredging,	New London, Conn.		Mar. 1
	Advertised, Eng. News, Mar. 1 to 22.			
Mar. 31.	Ditch, etc.,	Lewiston, Idaho.		Mar. 1
	Advertised, Eng. News, Mar. 1 to 29.			
Mar. 31.	Quay wall,	Bremerton, Wash.		Feb. 15
Apr. 1.	Garbage disposal,	Auburn, N. Y.		Feb. 22
	Advertised, Eng. News, Feb. 22 to Mar. 8.			
Apr. 1.	Incinerating plant,	Tampa, Fla.		Mar. 15
	Advertised, Eng. News, Mar. 15 and 22.			
Apr. 1.	Canal,	Gunnison, Utah.		Mar. 22
Apr. 2.	Levee,	Piggott, Ark.		Mar. 15
Apr. 2.	Dredging,	Philadelphia, Pa.		Mar. 15
	Advertised, Eng. News, Mar. 15 to 29.			
Apr. 2.	Air compressors, etc.,	Pittsburg, Pa.		Mar. 15
	Advertised, Eng. News, Mar. 15 to 29.			
Apr. 2.	Port works,	Chile (Foreign)		May 4
	Advertised, Eng. News, April 1, 1906.			
Apr. 2.	Ditch,	Muscatine, Ia.		Mar. 8
Apr. 3.	Ditch,	Spirit Lake, Ia.		Jan. 18
Apr. 3.	Suction dredges,	Panama.		Mar. 15
Apr. 3.	Drains,	Spirit Lake, Ia.		Mar. 22
Apr. 3.	Drains,	Boone, Ia.		Mar. 22
Apr. 3.	Ditch,	Clarion, Ia.		Mar. 22
Apr. 3.	Gantry crane,	Washington, D. C.		Mar. 22
Apr. 4.	Ditch,	Vermillion, S. Dak.		Mar. 15
Apr. 4.	Dredging,	Washington, D. C.		Mar. 8
Apr. 5.	Wharves,	Manila, P. I.		Dec. 14
Apr. 5.	Seawall,	San Francisco, Cal.		Mar. 22
Apr. 6.	Ditches,	Northwood, Ia.		Mar. 22
Apr. 6.	Coal-handling plant,	Chicago, Ill.		Mar. 22
Apr. 7.	Jetties,	Cleveland, O.		Mar. 22
Apr. 7.	R. R. track scale,	Portsmouth, N. H.		Mar. 8
Apr. 9.	Wharf,	Guantanamo, Cuba		Feb. 22
	Advertised, Eng. News, Feb. 15 and 22.			
Apr. 9.	Street signs,	Schenectady, N. Y.		Mar. 1
	Advertised, Eng. News, Mar. 1.			
Apr. 9.	Electric railroad,	San Francisco, Cal.		Mar. 15
Apr. 10.	Dam, cribs, etc.,	Cincinnati, O.		Mar. 15
	Advertised, Eng. News, Mar. 15 to Apr. 5.			
Apr. 12.	Canal,	Glendive, Mont.		Mar. 15
	Advertised, Eng. News, Mar. 15 to Apr. 5.			
Apr. 12.	Cement,	Glendive, Mont.		Mar. 8
Apr. 12.	Main canal,	Glendive, Mont.		Mar. 8
	Advertised, Eng. News, Mar. 8 to 29.			
Apr. 12.	Dam,	Carlsbad, N. Mex.		Mar. 8
	Advertised, Eng. News, Mar. 8.			
Apr. 14.	Wharf,	Charleston, S. C.		Mar. 22
Apr. 15.	R. R. equipment,	E. Carolina Ry.		Mar. 22
Apr. 16.	Dredging,	Boston, Mass.		Mar. 22
	Advertised, Eng. News, Mar. 22 to Apr. 12.			
Apr. 16.	Main canal,	Boise, Idaho		Mar. 8
	Advertised, Eng. News, Mar. 8 to 29.			
Apr. 19.	Irrigation ditches,	Hazen, Nev.		Mar. 15
	Advertised, Eng. News, Mar. 15 to Apr. 5.			
May 1.	Steel dock,	Chile (Foreign)		Nov. 9
May 2.	Telephone system,	Salt Lake City, Utah.		Mar. 15
	Advertised, Eng. News, Mar. 15 to Apr. 5.			
May 4.	Wharf sheds & Rys.,	Manila, P. I.		Mar. 1
	Advertised, Eng. News, Mar. 15 to 29.			
No date.	Brick, terra cotta,	Lowell, Mass.		Mar. 1
	Advertised, Eng. News, Mar. 1.			
No date.	Cement,	Chicago, Ill.		Mar. 15
	Advertised, Eng. News, Mar. 15.			
CIVIL SERVICE EXAMINATIONS.				
Mar. 28.	Topographic Dftsman,	St. Louis, Mo.		Mar. 8
Apr. 1.	Topographic Draftsman,	Panama.		Mar. 22
Apr. 4.	Asst. Geologist,	Washington, D. C.		Mar. 22
Apr. 10.	Str. Steel Draftsman,	New York, N. Y.		Mar. 22
Apr. 18.	Assayer,	Chicago, Ill.		Mar. 22
Apr. 18.	Scientific Asst.,	Washington, D. C.		Mar. 1
Apr. 18.	Arch. Draftsman,	New York, N. Y.		Mar. 15
Apr. 25.	Arch. Draftsman,	New York, N. Y.		Mar. 15
No date.	Master Electricians,	Ft. Totten, N. Y.		Mar. 15
	Advertised, Eng. News, Mar. 15 and 22.			

PROPOSED WORK

ENGINEERING NEWS desires to obtain the **earliest possible reliable information** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

Address, **WAINWRIGHT RANDALL**
Editor Construction News

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ATCHISON, TOPEKA & SANTA FE.—About 500 miles of new line will be added to the Santa Fe system in Texas this year, according to charter filed with the Secretary of State. The construction contemplated is for a road from a point on the Pecos & Northern Railroad, in Palmer County, through western Texas and southward to Brownwood, 350 miles; also through Randall County and into Lubbock County, 125 miles; and another connection from Texas into Louisiana, 28 miles, to connect the system there with the Jasper & Eastern Railway.

BELLA COOLA & FRASER LAKE.—A. P. Lexton and Edgar Dewdney, of Victoria, B. C., are petitioning for a charter for a company under the above name to build a railroad from the mouth of the Bella Coola River, B. C., to Fort George, on the Fraser River, approximately 400 miles long.

BOWLING GREEN & WESTERN.—This company has been organized at Bowling Green, Ky., to build a railroad from that place to a connection with the Illinois Central at Horse Branch. Surveys have been made. It is reported that construction will begin in June. Directors are T. J. Sweeney, E. P. Neale, C. D. Herdman, A. H. Taylor and B. F. Proctor, all of Bowling Green, Ky.; Luther Leber, of New York; John M. Carson and W. A. Helm, of Morgantown, Ky.

BURR'S FERRY, BROWNDEL & CHESTER.—Philip G. Omohundro, Ch. Engr., Beaumont, Tex., informs us that contract was awarded on March 5 to the TEXAS GRADING CO., J. M. Griswold, Pres., of Houston, Tex., for clearing, grubbing and earthwork, which is now in progress. Bridging begins about March 20. Noted in detail on March 1 and March 15.

CANADIAN EASTERN.—The bill before Parliament to grant this company a charter provides for the construction of a line from near Montreal, Que., to a point on the Atlantic Ocean, the Gulf of Saint Lawrence or the Straits of Belle Isle. Capital stock, $25,000,000. Incorporators: Edouard B. Garneau, of Quebec, Que.; David William Campbell, Aime Geoffrion, Luke Moore and Victor Cusson, of Montreal, Que.

COLORADO, TEXAS & MEXICO.—Incorporated in Oklahoma to build a railroad from Cheyenne, Wyo., through Wyoming, South Dakota, Colorado, Nebraska, Kansas, Oklahoma and Texas into Mexico, passing through the states of Coahuila, Chihuahua and Sonora to the Gulf of California. In Oklahoma the road is to pass through the counties of Woodward Day, Roger Mills and Grier, to Mangum, crossing Red River at Riley's Crossing and passing on to Corpus Christi, Tex. The estimated length of the line is 2,500 miles, with branches in Mexico. Capital stock, $75,000,000. Incorporators: Morris R. Locke, Abilene, Tex.; John M. Blackburn, Rufus C. Echols, H. M. Ferguson, G. W. Boyd, W. M. Stewart and T. N. Staton, all of Mangum, Okla.

DENVER, NORTHWESTERN & PACIFIC.—It is reported that financial arrangements have been made by D. H. Moffatt, Pres., Lenver, Colo., for beginning construction work on this road from both ends of the line. The railroad is projected from Denver, Colo., to Salt Lake City, Utah, 579½ miles, of which 362 miles are in Colorado and 217½ miles in Utah. The road is completed and in operation from Denver to Sulphur Springs, and is surveyed from the latter point to Haydon, 128 miles. Surveys are in progress from Haydon to Salt Lake City, 361 miles. The grading is completed from Sulphur Springs west to Kremmling, 18 miles, and work is in progress from the latter point to Toponas, 51 miles. ORMAN & CROOK, of Pueblo, Colo., and DUNPHY & NELSON, of Pueblo, are the contractors for the work from Klemmling to Toponas. H. A. Sumner is Ch. Engr., Denver, Colo.

DARDANELLE, OLA & SOUTHERN.—Incorporated in Arkansas to build a railroad from Dardanelle to Ola, 22 miles. Directors: C. C. Godman, L. R. McCarty, O. J. Karkey, John B. Crownman, James A. Wilson, H. M. Jacoway, Jr., Fred H. Phillips, A. B. Cox and Thomas J. Cotton, of Dardanelle, Ark.

ERIE.—The FERGUSON CONTRACTING CO., of Pittsburg, Pa., is reported to have been awarded contract for reconstruction work for the Erie R. R. from Port Jervis to Hunter, N. Y., on the New York Division, which amounts to over $1,000,000. According to the Pittsburg "Leader" the Erie Co. has in view improvements amounting to about $6,000,000, which includes the rebuilding of 33 miles of road. Heavy grades and sharp curves will be eliminated, and a number of tunnels will be abolished.

J. G. WHITE & CO., 49 Exchange Place, New York, have been awarded a contract for the reconstruction of a portion of its line just east of Jamestown. This work will be completed within the next few months, and will cost about $100,000.

EAST CAROLINA RY.—We are officially advised that bids will be received about April 15 for equipment for 15-mile line. Address Henry C. Bridgers, Pres. and Gen. Mgr., Tarboro, N. C.

EDGEWATER CONNECTING.—Incorporated in Kansas to build a railroad two miles long at Kansas City, Kan., to connect the Missouri Pacific and the Chicago Great Western Rys. Capital stock, $500,000. Incorporators: E. G. Merriam, of St. Louis; B. P. Waggener, W. P. Waggener, James W. Orr and S. E. Harburger, all of Atchison, Kan.

FRISCO, OKLAHOMA CITY & TEXAS.—Incorporated in Oklahoma to build a railroad in the interests of the St. Louis & San Francisco Ry. from Oklahoma City, Okla., to Hewitt, Ind. T. Capital stock, $2,000,000. Incorporators: Dennis T. Flynn, C. B. Ames and R. Campbell, Oklahoma City; C. R. Gray, L. F. Parker, A. Douglas and W. B. Drake, St. Louis, Mo.

GRAND TRUNK PACIFIC.—The CANADIAN WHITE CO., of Montreal, Que., invites bids for grading 140 miles of line. Noted fully on March 8th.

GULF & NORTH WESTERN.—N. R. Morgan, Secy., Meridian, Tex., advises us that contracts will be let about May 15, or sooner, for construction of the line from Waco to Stephensville and Strawn, 125 miles. Survey has been completed. Right-of-way is promised or secured. Final report, prospectus, profiles, etc., are now being made. James B. Baker is Pres., at Waco, and P. A. McCarthy is Ch. Engr., at Lufkin, Tex. Noted on March 8.

HILLSBORO & NORTH EASTERN.—W. H. H. Cash, Gen. Mgr., New Lisbon, Wis., advises us that right-of-way is secured and surveys made. Contracts probably will be let next month. Capital for construction is partly secured. E. Hammer, Hillsboro, Wis., is Pres. The line will extend from Hillsboro to Yuba, Hub City, Rockbridge, Buck Creek, Bowers and Richland Center, Wis.

INDIANA HARBOR.—New Yards will be built at Gibson, Ind. R. B. Seymour is Ch. Engr., Chicago, Ill.

LAS VEGAS & TONOPAH.—It is reported that Arthur Maguire, Ch. Engr., Las Vegas, Nev., has stated that this road, which is under construction from Las Vegas to Beatty, Nev., will be 118 miles long. Grading is well advanced on the first 70 miles out of Las Vegas, and 32 miles of track have been laid. DEAL BROS. & MENDENHALL, of Springville, Utah, are the contractors. J. Ross Clark is Pres., at Los Angeles, Cal.

LORAIN SOUTHERN.—Contract for building the first 55 miles of this railroad has been let to the OHIO CONSTRUCTION CO., of Pittsburg, Pa., of which W. D. Halliday is Pres. Joseph Ramsey is Pres. of the Lorain Southern, which proposes to build a railroad from Lorain, O., south through Wellington and Ashland to Black Fork River, and thence through the counties of Knox, Coshocton, Muskingum, Morgan, Athens and Meigs, to the Ohio River, passing through the rich Hocking coal fields. The Industrial Railroad at Lorain has been acquired and will furnish an entrance into that city. It is said to be the intention of the company to complete the line from Lorain south as far as Wellington, about 22 miles, by July 1. George P. Rust, of Cleveland, O., is Ch. Engr.

NOVA SCOTIA EASTERN.—The Provincial Government has completed a contract with a syndicate of Canadian capitalists headed by Sir Montague Allan, of Montreal, Que., head of Allan's Line, for the construction of the Nova Scotia Eastern Ry. from Halifax to Guisboro, N. S. Two years ago a company, in which J. R. Stratton, of Toronto, Ont., was interested, secured a charter and a grant of $5,000 a mile from the government to build this line, but owing to their failure to finance the scheme in London the charter expired. Sir Montague Allan, who was president of the Acadia Coal Co., with collieries in Pictou County, was interested in the project. The contract provides for building a line along the eastern shore from Halifax to Guisboro and a spur from New Glasgow to County Harbor. This latter will give the company an open port for shipments all the year round. The rail distance from the mines to the ocean will be about 50 miles.

PENNSYLVANIA R. R.—The Philadelphia "Ledger" states that "the engineering department of the Pennsylvania Railroad has been ordered to complete its survey for the construction of the low-grade line between Altoona and Pittsburg. Three surveys have been made, and the route for the line west of Bolivar has been decided upon. It will follow in a general way the four-track line now in operation. An officer of the company said yesterday that the line east of Bolivar will branch off from the main line, and, by crossing the Conemaugh River, a better grade road can be constructed eastward to Altoona."

SOMERSET RY.—MITCHELL & JOHNSON, of Bangor, Me., have contract for building the extension from Bingham to Birch Point, which it is expected will be finished before next winter. About 30 of the 50 miles remain to be built. MITCHELL & JOHNSON have contracted to complete the road on or before Dec. 1. The firm will receive a bonus of $10,000 if it succeeds, and forfeits $50 a day to the owners of the road for every day of work after Dec. 1. The road will cross the right-of-way of the Canadian Pacific about three miles west of Asquith, and the terminal, as planned at present, will be on Birch Point, directly across Moosehead Lake from the Mt. Kineo House. The line is being operated at far as completed as a lumber road. W. M. Ayer is Mgr., at Oakland, Me.

TAYGARTS & CHEAT RIVER.—A charter has been granted to this company in West Virginia, with a capital of $20,000, to build a railroad from Cecil, on the Baltimore & Ohio R. R., in Taylor County, east to Rowlesburg, in Preston County, about 20 miles. The incorporators include J. Baumgartner, S. McNiel, C. H. Moran and A. R. Stuart, of Baltimore, and G. H. Clapp, of Aberdeen, Md.

UNION PACIFIC.—The UNION SWITCH & SIGNAL CO., Swissvale, Pa., has been awarded the contract for installing block signals on 2,342 miles of this company's lines. Noted last week.

WAYCROSS, SATILLA & ST. MARYS.—We are officially informed that company is now making survey for proposed line from Waycross to St. Marys, Ga., with a branch line from Bullhead Bluff, via Folkston, to St. George, a total of 110 miles. 60 miles have been surveyed. Right-of-way is being secured. Capital has been obtained. Contracts will be let as soon as survey of route and plans have been completed. L. A. Roberts, Empire Bldg., Atlanta, Ga., is Ch. Engr. W. E. Sirmans, of Waycross, probably will be elected President.

WESTERN PACIFIC.—An official report states that the length of this road from Salt Lake City, Utah, to San Francisco, Cal., will be 937 miles, of which 121 miles are in Utah, 456 miles in Nevada, and 380 miles in California. The route is via Grantville, Utah; Wells, Elko and Winnemucca, Nev.; and Honey Lake, Beckwith, Mohawk, Oroville, Marysville, Sacramento, Stockton, Livermore, Niles and Oakland, Cal. Surveys are completed for the entire line, and the Utah and California portions are under contract. The E. B. & A. L. STONE COMPANY, Oakland, Cal., has the contract for 197 miles in California, and the UTAH CONSTRUCTION COMPANY, of Ogden, Utah, has the contract for 173 miles in California and 121 miles in Utah. Contracts for the Nevada portion of the line are to be let this spring. Grading is now being pushed from Salt Lake City to the Utah-Nevada state line, 121 miles, and from the Nevada-California state line to Oakland, 370 miles. The road is the final link in the Gould system from Baltimore to San Francisco. The maximum grade is 53 feet to the mile. It is claimed that this will be the only road reaching the Pacific coast on so low a grade. The maximum curvature on the mountain section is 10°, and on the other part of the line 6°. Weight of rail, 85 lbs. E. T. Jeffery is Pres., 195 Broadway, New York; V. G. Bogue, 321 Safe Deposit Bldg., San Francisco, Cal., is Ch. Engr.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

SYRACUSE, N. Y.—I. M. LUDDINGTON, of Rochester, N. Y., has been awarded the contract for the construction of the section of the Rochester, Syracuse & Eastern Electric Railroad from Lyons to Savannah, N. Y., a distance of about 15 miles; also the contract for building the Auburn & Northern Electric Railroad from Auburn to Port Byron, a distance of about seven miles. The two contracts amount to about $200,000. Mr. Luddington is now double-tracking the Auburn & Syracuse Electric Railroad from Howlett Hill to Skaneateles. All are controlled by the Beebe syndicate.

The directors of the Mohawk Valley Co., the holding company of the Vanderbilt-Andrews syndicate interest, have decided to use the third rail in the electrification of the West Shore & Michigan Southern Ry. between Syracuse and Utica and to have that section in operation by June 1 is possible. The section is 60 miles long, and forms the link between the two cities in the transstate Vanderbilt electric line. It is said that the company eventually will equip the West Shore with the third rail from Rotterdam Junction to Rochester.

ALTOONA, PA.—Bids are asked by F. G. Patterson, Pres. of the Altoona, Hollidaysburg & Bedford Springs Railway Co. for the construction of the Altoona-Roaring Spring division (18 miles) of the above road, also for power house and equipment. Bids will be received at the general offices of the company, No. 427 Fourth Ave., Pittsburg, Pa., up to and including March 28. Plans and specifications may be seen at the general offices of the company, or at the office of the Chief Engineer, H. C. Gwin, Altoona Trust Bldg., Altoona, Pa.

HAMPTON, VA.—Sidney J. Dudley, one of the directors of the Hampton & Yorktown Railway Co., states that the company has been granted permission by York and Elizabeth City Counties to build its proposed electric railroad from Hampton to Yorktown, Va., 21 miles. The other directors are Frank W. Darling, Henry L. Schmelz, Geo. A. Schmelz, H. W. Booker, John B. Kimberly, R. S. Hudgins, P. H. Barney, Albert Howe, Harry Libby, J. M. Willis and Sidney J. Dudley of Hampton.

MORGANTOWN, W. VA.—Incorporators of the South Morgantown Traction Co. have filed application with the city recorder for a franchise. Company has been chartered to construct a railroad from Willey and High Sts. to the Standard Oil pump station. Capital, $50,000. Incorporators: J. Leonard Smith, John Medagan, Samuel McGara, C. D. Willey, C. N. Reay and John E. Price, all of Morgantown.

The Sabraton Railway Co., which has just built a line from this city, east to Sabraton, has filed application with the clerk of the County Court for a franchise for an electric line to Point Marion, Pa., a distance of about nine miles. R. L. Morris is Pres. of the company.

The Morgantown Interstate Railway Co., just incorporated, has also applied for a franchise for a line to Point Marion, Pa., over practically the same route as the preceding. D. C. Hoffman is the leading incorporator.

MARTINSBURG, W. VA.—A. W. Walker and J. T. Thompson, representing a syndicate of capitalists, have made application to the town council of Martinsburg, W. Va., for a franchise for a street railway in that town. They will also make application to the county court for the purpose of using the roads for the extension to Shepherdstown and other points. A contract has been made with the Martinsburg Power Co. for power both at this point and at Shepherdstown, near which place the company will erect a second power house, using water power.

GREENSBORO, N. C.—The county commissioners have granted a franchise to the syndicate of which E. J. Justice, of Greensboro, is trustee, to construct and [illegible] tric car line from Greensb[illegible] Mr. Justice states, accor[illegible] ports, that the line will b[illegible] future.

GADSDEN, ALA.—J. D[illegible] lector of Cherokee County [illegible] terested in a plan to bui[illegible] way from Center to Roun[illegible]

ALLIANCE, O.—S. F. H[illegible] agent for the proposed S[illegible] tion Co., according to a [illegible] that 90% of the required [illegible] been secured. The Sand[illegible] line will tap some of the [illegible] dairy and coal districts [illegible] planned, the company wi[illegible] of line, the main line ex[illegible] liance to Canal Dover via [illegible] Malvern, Waynesburg, [illegible] ville and Zoar. From Ma[illegible] be built to Canton along R[illegible]

BARBERTON, O.—Coun[illegible] franchise to the Barberto[illegible] Western Traction Co. Th[illegible] tended to Western Star a[illegible]

LIMA, O.—The Western [illegible] this summer will complete [illegible] of track which will be th[illegible] fecting through traction se[illegible] Ohio, Indiana and Pennsyl[illegible] will connect the Toledo, F[illegible] with the Lake Shore Electri[illegible] Mason is Ch. Engr., at St[illegible]

KALAMAZOO, MICH.—W[illegible] informed that the Kalama[illegible] South Bend Traction Co. w[illegible] April 2 to secure a 50-ft [illegible] way for its line, which is [illegible] will run from South Bend, [illegible] mazoo, about 70 miles, via M[illegible] hart, Ind.; Union, Cons[illegible] Rivers, Parkville and V[illegible] Company is not yet ready to [illegible] cial proposition. Maps and p[illegible] completed, but company is [illegible] pectus of project. Construction [illegible] class; 70-lb. T rails will be used. Maximum grade 2%, with very few curves. A. D. Harris is Pres. and John F. Meighan, Ch. Engr., both at South Bend. John M. Caulfield, of South Bend, is Vice-Pres.

EAST ST. LOUIS, ILL.—The Southern Traction Co, of Illinois, has been organized in East St. Louis, to take over the leases and franchises granted here to the Indiana & Illinois Electric Co. and the Ozark Mountain Electric Railway Co. The following are the officers of the new company: Pres., Finis P. Ernest, of East St. Louis, Ill. Vice-Pres., R. Vernon Clark, East St. Louis, Ill.; Secy. and Treas., I. T. Hedges, of St. Louis, Mo. Gen. Mgr., H. D. Mepham, St. Louis, Mo. It is reported that the company has purchased rails and ties for 152 miles of line. Grading has been authorized for the whole line.

HUTCHINSON, KAN.—This city has voted $20,000 as a bonus for county building an electric railway through Hutchinson. We were officially informed recently that Emerson Carey and others, of Hutchinson, who have been awarded a 50-year franchise "propose to build a street railway line in Hutchinson about eight miles long, at once. As soon as the same is completed they are going to construct an interurban line to Sterling and Huntsville on the west, and will probably extend to Wichita on the southeast. They also expect to erect a complete lighting and power plant in Hutchinson."

PARSONS, KAN.—William J. Jones, Secy and Gen. Mgr. of the Kansas Union Traction Co., Altamont, Kan., writes us that contracts will be let June 1 for construction of its line from Parsons to Altamont and Coffeyville, Kan., about 40 miles. Franchises have been granted and right-of-way and capital secured. Company recently was incorporated with $1,000,000 capital. C. N. Petty is Pres., at Altamont.

CORSICANA, TEX.—H. E. Terry, Ch. Engr. of the Central Texas Traction Co., at Corsicana, informs us that contracts for construction will be let in the near future. The line will extend from Corsicana to Palestine and Fairfield, 74 miles. Principal portion of right-of-way is secured and 28 miles of the line are located. J. V. Watkins, Corsicana, is Pres.

CHICKASHA, IND. T.—E. E. Colby, Ch. Engr. of the City Railway Co., writes us that contracts will be let about May 1 for building this line. Recently Mr. Colby advised us that surveys had been made and right-of-way secured. The railway will cover eighty miles of city streets. Capital is secured. Company is in the market for overhead wire and banding for return circuit, also power plant. M. B. Louthan is Pres. at Chickasha.

SAN FRANCISCO, CAL.—We are officially informed that the San Francisco, Vallejo & Vaca Valley Electric Ry. Co. has awarded contract for construction to M. V. BRADY of San Francisco. Charles Soule, 11 Market St., is Ch. Engr. Wilfred H. Hodgkin is Pres., Fresno, Cal. All franchises and right-of-way have been obtained and surveys are about completed. The line will be 110 miles in length, running from Vallejo to Benecia, Vacaville, Winters, Rio Vista and Dixon. Capital stock is $3,000,000.

SACRAMENTO, CAL.—The California Congressional delegation at Washington has been unofficially advised, according to a report, that a favorable report will be made by the Secretary of the Interior on the plan to change the boundary of Yosemite National Park, in order to permit the construction of electric railways on an even footing in competition for Yosemite Valley traffic. It has been demonstrated to the satisfaction of the department that no scenic features of valuable forests would be excluded from the park by changing the boundaries, while the public interest would be served by giving all railroads an equal chance to compete. Upon receipt of Secretary Hitchcock's report an effort will be made to secure the passage of a bill making the proposed change in the boundary.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

MORRISVILLE, VT.—A new dam across the Lamil... River is projected here. A. A. Niles, V... Clerk, says the question of develop... tional power will be voted on in April. ... A. Slayton is Supt.

BURLI... N, VT.—Bids for machinery to be insta... the municipal electric plant here have ... received as follows: Westinghouse ... Company, of Pittsburg, Pa., ... engine, $11,646, the engine turbine ... four and one-half months, the turbine to be ... set in 85 days; Fort Wayne Electric ... Fort Wayne, Ind., turbine, $12,841 ... $11,950.49; engine to be set in 3½ ... (no condensing apparatus), turbine ... set in eight months; Turbine Engine ... Company, New York, turbine, $14,17... to be set in four months; Platt Iron Works ... engine, $18,165, to be set in 12 months ... Owens Reutschler, Hamilton, ... turbine, $14,000, engine, $14,050, ... set in 3½ months, turbine to be engine ... months; A. D. Granger Co., Bates Machine ..., New York, engine, $10,333, engine to be set in from 90 to 120 days, no condensing apparatus; C. H. Wheeler Manufacturing Company, Philadelphia, Pa., a bid of $2,850 on condensing apparatus, time for work ten weeks.

SPRINGFIELD, MASS.—The contract for putting several miles of its electric light cables underground has been awarded by the United Electric Light Co. to FRED T. LEY & CO.

MIDDLEBORO, MASS.—The municipal electric light plant will probably be enlarged shortly in order to provide day service for lighting and power purposes.

BRIDGEPORT, CONN.—Contract for gas and gasoline lighting has been awarded to the AMERICAN STREET LIGHTING CO., Baltimore, Md., for 5 years, at $12,500 per year. E. T. Buckingham is City Clk.

NEW YORK, N. Y.—Contract has been awarded to the COMMERCIAL CONSTRUCTION CO., 1 Madison Ave., for electrical equipment for School 66, Borough of Brooklyn, at $16,847.

BUFFALO, N. Y.—A municipal electric light plant is planned for this city, and an item of $250,000 has been added to the budget to provide for it. E. B. Guthrie is City Engr.

CAMDEN, N. J.—The following bids have been received for installing an electric light plant at the county buildings: J. F. Buchanan & Co., $4,444; Arnold & Co., $5,340; John A. Parsons, $4,747; Faure Electric Works, $4,569; Miller, Morris & Co., $4,742.

EAST ORANGE, N. J.—Bids are asked until 8 p. m., March 26, by the City Council, for furnishing and erecting a centrifugal pump and electrical machinery at White Oak Ridge. Specifications are on file at office of Engineering News, New York. Edgar Williams is City Clk.

ALTOONA, PA.—See under Electric Railways.

DANVILLE, PA.—Bids are asked until noon, April 10, by the Building Committee of the Board of Trustees of the State Hospital for the Insane, for erecting powerhouse, with machinery and wiring. Levi I. Shoemaker, Chn. (Advertised, Engineering News.)

PHILADELPHIA, PA.—Bids are asked until 11 a. m., April 7, by the Bureau of Yards and Docks, Navy Department, for underground electric lighting cables to be installed at the League Island Navy Yard. Specifications are on file at office of Engineering News, New York. Mordecai T. Endicott, Chief of Bureau.

PHILADELPHIA, PA.—It is reported that M. Ward Easby, Arch. and Engr., is at work on plans for a four-story and basement power house of the slow burning mill construction type, to be erected at Twelfth and Carpenter Sts., for the John Williams Manufacturing Co. The proposed plant will measure 132.3 × 110.3 ft.

WILMINGTON, DEL.—Plans have been prepared for a power house by the Maryland Telephone & Electric Co. The estimated cost is $500,000.

MARION, N. C.—The Marion Light & Power Co. is reported incorporated, with a capital of $25,000, to develop the water power on Catawba River in McDowell County, for the generation of light and power. Incorporators: J. L. Morgan, W. N. Lotsperch and R. H. Bennett.

MORRESVILLE, N. C.—Bonds for $10,000 have been authorized and the money will be used for building an electric lighting plant.

BAMBERG, S. C.—Specifications and bidding sheet for proposed electric light plant are on file at office of Engineering News, New York. Date of receiving bids is March 22. Mentioned in issue of March 1.

BIRMINGHAM, ALA.—It is said that the Birmingham Railway, Light & Power Co. will erect an addition to its plant, at a cost of $50,000.

NATCHEZ, MISS.—If the consent of the legislature can be obtained this city will issue bonds for $75,000 and build an electric light and power plant.

SHAW, MISS.—The SANDERS-JOHNSON CO., of Vicksburg, have been awarded the contract for construction of an electric light and water plant here at $24,593.

BATON ROUGE, LA.—It is reported that the Baton Rouge Electric & Gas Co. contemplates rebuilding its entire plant. The work is contingent on the securing of further franchises from the city. F. Arbour is Ch. Engr.

MEMPHIS, TENN.—The Memphis Street Railway Co. has purchased property at a cost of $20,000 and will erect a new power house.

HOPKINSVILLE, KY.—H. Dalton has secured the franchise to operate an electric light and power plant and a gas plant here and will build at once.

CORBIN, KY.—It is reported that G. W. Schamberger and W. H. Spradlin, of Gallatin, Tenn., representing a large syndicate, have secured the valuable water rights of the Great Cumberland Falls on the Cumberland River. They propose to begin the establishment of a mammoth water power plant, similar to the Niagara power producers, to supply electric power for a radius of 200 miles. The Cumberland falls is nearly 400 ft. wide and the declivity is 80 ft. Work will begin in a few months.

NILES, O.—Bonds for $12,000 have been issued for improving and equipping the municipal electric light plant. B. L. Logan is City Audr.

AVONDALE, O.—Tietig & Lee, architects, Commercial Tribune Building, Cincinnati, are preparing plans for a power plant and steam laundry for the Jewish Hospital at Avondale, to cost about $40,000.

CANTON, O.—Bids are asked until noon, March 27, by the Board of Public Service, for the erection and maintenance of an electric lighting plant. C. A. Zellers is Clk.

PLYMOUTH, IND.—The council has passed an ordinance granting a franchise to Daniel A. Douglas, of Angola, Ind., for the manufacture of gas for lighting and fuel. Construction will begin at once.

NOBLESVILLE, IND.—It is said that T. C. McReynolds, manager of the Kokomo Railway & Light Co., has purchased the electric light and ice plant at Noblesville and organized a new company which will build a new power plant.

MT. VERNON, IND.—The City Council has granted a franchise to Thomas Rankin, of Chicago, for furnishing the city with illuminating fuel, or power gas for a term of twenty years. Work on the plant will begin within 90 days. The estimated cost is $30,000.

BOYNE CITY, MICH.—The Boyne City Electric Light Co. will begin the erection of a new power plant early in April. C. A. Stowe, Grand Rapids, is Pres. and Mgr.

MONTROSE, MICH.—Press reports from this city state that Chicago capitalists will build a dam across Flint River and install a large power plant.

EAST ST. LOUIS, ILL.—The Illinois Illuminating Co., C. Bruckman, Pres., will soon commence the erection of a brick building 100 × 38 ft., to be used as a generating and boiler room. The company will furnish current for power and lighting purposes. It will expend $100,000 in building and machinery.

CHICAGO, ILL.—The Peoples Gas Light & Coke Co. has secured 300 acres of land in the southwest section of the city and will build a gas plant to cost approximately $5,000,000. The company is now working on the plans and construction will begin as soon as they are completed.

CHICAGO, ILL.—The Metropolitan West Side Elevated Railway Co. will build two transformer stations on the west side. They will be one-story, of brick, stone and iron, and cost $300,000. M. Conelly is Engr.

HEBRON, ILL.—Bids are asked until April 15 by W. E. Wise, for the construction of a gas plant to cost about $6,000.

ELKADER, IA.—M. J. Poull writes that town is planning the installation of a gasoline gas plant, and asks information on the subject.

DULUTH, MINN.—J. H. HILLIARD has been awarded the contract for the construction of the generating station for the Great Northern Power Co. above Fond du Lac. The building will cost about $100,000.

CROOKSTON, MINN.—Senator A. D. Stevens is interested in the development of water power on Red and Red Lake rivers. Probably $300,000 will be expended for this purpose. Work will begin early in the summer.

WAGNER, S. DAK.—It is reported that John Absher will build an electric light plant here at an estimated cost of $10,000.

FORT RUSSEL, WYO.—Bids are asked until April 14 by Capt. W. S. Scott, Q. M., Cheyenne, Wyo., for extending electric light system at this post.

KIRKSVILLE, MO.—The Kirksville Gas, Heat & Electric Co. is reported to have awarded the contract for the construction of its entire plant to the AMERICAN CONSTRUCTION CO., of Newton, Ia.

RUSSELLVILLE, ARK.—The construction of an electric light plant is contemplated The mayor can give information.

MERIDIAN, TEX.—N. R. Morgan, Atty., Meridian, writes us that there is "superior undeveloped water power, with fall of 800 ft. in 80 miles on the Bosque River, a region unsurpassed in fertility and health." The development of other resources is desired, especially the promotion of railroads, cotton mills or factories. Mr. Morgan may be addressed for detailed information.

HUBBARD, TEX.—W. A. Bass, Mgr., writes that bids will probably be asked May 1, for the erection of a light and ice plant to cost about $35,000. Allen & Scott, Waco, Tex., are Engrs.

COLORADO SPRINGS, COLO.—To divert the water of the Las Animas River from its course, convey it through a tunnel seven miles in length and generate 30,000 HP. is the general plan of a project to be undertaken by the Animas Power & Water Co. Henry Jameson, Indianapolis, the President, states that $1,000,000 will be spent.

ALINE, OKLA.—An electric light plant will be erected here by J. Hartshorne and George Graham.

SIBONEY, OKLA.—The Siboney Gas & Oil Co. has been incorporated with a capital stock of $100,000 by K. C. Stinebaugh and others. A plant will probably be built at once.

COALGATE, IND. T.—It is planned to begin work at once on an electric light plant at this place. FRANK V. ARCHER has the contract.

DURANT, IND. T.—We are informed by J. H. Ritchie, Pres., Cherryvale, Kan., that the Choctaw Oil and Gas Co. plans to commence work on a gas plant at this place during the summer. It is also planned to furnish other towns in the vicinity with fuel and light.

MARIETTA, IND. T.—Bids are asked until 3 p. m., March 23, for the erection of an electric light and water-works system. B. C. Logsden is Mayor and W. P. Bullock, Engr.

SANGOR, ORE.—We are officially informed that the Eagle River Electric Power Co. will erect a power plant on the Eagle River near this place at an estimated cost of $150,000. J. K. Romig, Baker City, Ore., is Mgr.

BANDON, ORE.—The council is said to have granted a 20-year franchise to the Bandon Electric Co., to construct an electric light plant.

PASADENA, CAL.—It is proposed to issue bonds to the amount of $125,000 for the construction of a municipal lighting plant. J. D. Allin is City Engr.

MOUNTAIN VIEW, CAL.—R. V. Burns and W. P. Wright have applied for a franchise to erect and operate a gas plant at this place. R. V. Burns is Clk.

SAN DIEGO, CAL.—The San Diego Gas & Electric Co. will lay high-pressure gas mains under San Diego Bay to furnish Coronado with gas. H. M. Byellsby & Co., Chicago, are Engrs.

LOS ANGELES, CAL.—Contracts for furnishing poles and other fixtures for the lighting of Hill St. were awarded to the LLEWELLYN IRON WORKS, of Los Angeles, at $17,220.

CLIFTON, ARIZ.—The Arizona Copper Co. is planning the erection of a large power plant here.

MURRAY, UTAH.—It is said that an electric light and power plant will be built here at an estimated cost of $200,000. M. Miller, of Murray, is Pres. of the company which is exploiting the project. F. M. Lyman, Salt Lake City, is Engr.

SALT LAKE CITY, UTAH.—According to J. J. Chambers, President of the Inter-Mountain Co., bids will probably be received about May 1 for the proposed electric plant, to cost about $600,000. Frank C. Kelsey, Salt Lake City, is Engr.

SALT LAKE CITY, UTAH.—The Independent Gas Co. will soon start the erection of a new gas plant. R. B. Brown is Ch. Engr.

OGDEN, UTAH.—Bids are asked until March 27 by James Knox Taylor, Supervising Architect, Treasury Department, Washington, for electric light system in the Postoffice and Court House here.

ST. JOHN, N. B.—A report has been received from Ross & Holgate, 80 St. Francis Xavier St., Montreal, on the cost of an electric light plant. They suggest that a combined light and garbage disposal plant be built at a cost of $80,000.

BRANDON, MAN.—It is stated that the Brandon Electric Light Co. is preparing to make large extensions to its plant in order to be able to supply the increasing applications for power. The company's city power station will also be extended in the near future.

BRANDON, MAN.—The Great Western Power & Manufacturing Co., of Peterboro, Ont., are negotiating with the council for the establishing of a gas and electric power plant.

CARBERRY, MAN.—The council is now arranging to install a municipal lighting plant, to cost about $12,000.

CALGARY, N. W. T.—The council has resolved to spend $30,000 for an electric light extension.

ERINDALE, ONT.—Bids are asked until noon, April 30, by John Mackay, 7 King St. East, Toronto, Ont, for the purchase of a hydro-electric power plant at this village. (Advertised, Engineering News.)

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

EXETER, N. H.—Town has voted to build a bridge over Little River at Gilman Park. Fred. S. Fellowes is Town Clerk.

GLOUCESTER, MASS.—We are officially informed that Holbrook, Cabot & Rollins, 6 Beacon St., Boston, submitted the only bid, on March 14, for the construction of a bridge over New Canal, at $62,000. As the county commissioners were authorized to expend no more than $50,000, the award of contract is held in abeyance. James P. Hale is Clk. County Comrs., at Salem.

BEVERLY, MASS.—It is reported that a draw-bridge over the Danvers River will be constructed by the towns of Salem and Beverly at a cost of $100,000. W. J. Berry is City Engr. of Beverly.

PROVIDENCE, R. I.—A viaduct to parallel the viaduct of the New York, New Haven & Hartford R. R., between the passenger station and the East Side tunnel is projected. Walter F. Slade is Comr. Pub. Wks.

NEW LONDON, CONN.—Bids will be asked shortly for the erection of a new reinforced concrete and steel bridge over Winthrop's cove at Crystal Ave. George K. Crandall is City Surveyor.

PEDRICKTOWN, N. J.—We are officially advised that the contract for the construction of draw-bridge over Old Man's Creek has been awarded to the NEW JERSEY-WEST VIRGINIA BRIDGE CO., Fuller Bldg., New York, at $11,200. William M. Carter is Engr., at Woodbury, N. J.

BETHLEHEM, PA.—It is reported that the proposed bridge of the Lehigh Terminal Bridge Co., for which the Osborn Eng. Co. of Cleveland, O., is preparing plans and which is to be constructed between Bethlehem and South Bethlehem, will cost about $400,000.

HARRISBURG, PA.—Board of Public Works will have plans prepared for a steel bridge, 1,500 ft. long, over Mulberry St. Estimated cost, $250,000. M. B. Cowden is City Engr.

ODESSA, DEL.—Bids are asked until noon, March 27, by the Levy Court Commissioners for the construction of substructure and steel draw-bridge over Appoquinimink River, near this place. C. H. Salmon, Comr., Wilmington, Del.

ATLANTA, GA.—The award of contract for the construction of the Washington St. viaduct, noted on March 8 as being made to the Oliver Co., Knoxville, Tenn., has been rescinded and new bids asked. R. M. Clayton is City Engr.

PENSACOLA, FLA.—The commissioners of Escambia and Baldwin Counties have awarded a contract to the SOUTHERN BRIDGE CO., Birmingham, Ala., for the construction of a steel bridge over Perdido River, at $3,657.

ST. ANGUSTINE, FLA.—It is reported that the St. John's Light & Power Co. will build a steel bridge across the St. John's River, to be ¾ of a mile long and have a swinging span or drawbridge in center. Plans have not as yet been decided on.

MONROE, LA.—We are advised that the Vicksburg, Shreveport & Pacific R. R. Co. has awarded the contract to construct a steel draw-bridge with concrete and brick foundations over the Onachita River here to A. M. BLODGETT, Kansas City, Mo., at $45,500.

CHATTANOOGA, TENN.—The contract for the stone abutments for the Eleventh St. bridge has been awarded to the WEST CONSTRUCTION CO., of this city, at $10,271.

PADUCAH, KY.—Council is considering the proposition of building a stone and concrete bridge over Island Creek at Fourth St. L. A. Washington is City Engineer.

TOLEDO, O.—Frank I. Consaul, Ch. Engr. Bd. Pub. Service, has presented a report showing the following estimated cost of the proposed new river bridge, if constructed according to any of the four plans mentioned: Jackson to Main, $822,550. Y-plan, $1,071,550. Cherry to Main (82.5 ft. wide), $965,000. Cherry to Main (66 ft. wide), $839,414.

CLEVELAND, O.—Bids are asked until 11 a. m., April 4, for the construction of several concrete and steel bridges in Cuyahoga County. W. H. Evers, County Engr.; J. C. Dorn, Clk. County Comrs.

CINCINNATI, O.—It is reported that plans are being drawn by Charles N. Danenhower, Ch. Engr. Bd. Pub. Service, for a steel viaduct to be 200 ft. in width and 50 ft. in length, costing $300,000.

LEBANON, O.—The Oregonia Bridge Co., of this place, was lowest bidder for erecting the superstructure of the Morrow bridge, at $6,937.

MICHIGAN CITY, IND.—Council is considering the erection of a bascule bridge across the harbor at Franklin Ave., at an estimated cost of about $30,000.

MISHAWAKA, IND.—The county commissioners will ask an appropriation of $75,000 to build a steel and concrete bridge here. M. B. Russ, County Comr., is interested.

NEWPORT, IND.—We are officially advised that the contract for constructing a bridge over the Wabash River at this place, bids for which were opened March 12, has been awarded to the LAFAYETTE ENGINEERING CO., Lafayette, Ind., at $22,630. W. T. Saunders is County Comr., at Perrysville.

ROCK GROVE, ILL.—All bids for constructing three bridges in this township have been rejected by highway commissioners.

CHICAGO, ILL.—It is reported that a new bridge will be constructed over Bubbly Creek, at Ashland Ave. and 40th St., at a cost of about $100,000. John Erickson is City Engr.

HEYWORTH, ILL.—We are officially advised that the contract for constructing the concrete and steel bridge over Kickapoo Creek, north of this place, has been awarded by the Illinois Traction System to the DECATUR BRIDGE CO., Decatur, Ill., and not to the Interurban Construction Co., of Danville, as previously reported. L. E. Fischer is Gen. Mgr., at Danville.

CHIPPEWA FALLS, WIS.—The Milwaukee Bridge Co., of Milwaukee, was lowest bidder for constructing a bridge over Duncan Creek, at $1,339.

HUTCHINSON, KAN.—Council has awarded contract for two steel bridges over the drainage canal to CORP & CO., of this city, at $3,082.

CARTHAGE, MO.—The VINCENNES BRIDGE CO., Vincennes, Ind., has been awarded contracts for three steel concrete bridges in Jasper County.

ST. LOUIS, MO.—Bids are asked until noon, March 27, for the construction of a concrete bridge over River Des Peres. A. J. O'Reilly, Pres. Bd. Pub. Improvements.

PINE BLUFF, ARK.—SWINK & McNULTY have been awarded the contract for constructing a concrete bridge over the bayou at Main St., at $1,495.

GONZALES, TEX.—Bids are asked by the County Commissioners until 1 p. m., March 26, for the erection of two steel bridges. W. W. Glass, County Judge.

CORPUS CHRISTI, TEX.—We are informed that the counties of Nueces and San Patricia will vote on April 7 on the issuance of bonds for a bridge over the Nueces River. C. F. H. Von Blucher is County Surveyor of Nueces County.

HAGERMAN, N. MEX.—The contract for constructing the Felix bridge here has been awarded to the MIDLAND BRIDGE CO., of Kansas City, Mo., at $5,500. Structure will be of steel with a 125-ft. span.

PORTLAND, ORE.—We are officially advised that plans and specifications are being prepared by J. B. C. Lockwood, Engr., 656 Worcester Blk., for a steel bridge across Sullivan Gulch, at Grand Ave.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

SACO, ME.—The Saco & Biddeford Savings Institution will erect a building at Main St. and Thornton Ave., to cost $100,000.

BROOKLINE, MASS.—Bids are asked until 3 p. m., March 27, for erecting a gymnasium building. F. J. Untersee, 49 Federal St., Boston, Arch. Walter Channing, Chn. Gymnasium Com.

GARDNER, MASS.—GEORGE H. CUTTING & CO., Worcester, Mass., have been awarded the contract for constructing the Heyward Memorial Hospital at Gardner, to cost about $60,000. Kendall, Taylor & Stevens, 93 Federal St., Boston, are Archs.

FALL RIVER, MASS.—Bids will be asked soon for the erection of a school on North Main St., at an estimated cost of $60,000. L. G. Destremps & Son, 56 Main St., are Archs.

UTICA, N. Y.—Bids are asked until 3 p. m., April 4, for constructing, plumbing, heating, electric light wiring and fixtures, and feeder cables for the Nurses' Home at the Utica State Hospital. T. E. McGarr, Secy. State Comn. in Lunacy, Albany, N. Y. (Advertised, Engineering News.)

NEW YORK, N. Y.—The ANDREW J. ROBINSON CO., 123 East 23d St., has been awarded the general contract for building the 5-story side and rear extension, 48 × 91 ft., new foundations, walls and adding two stories to the 1 and 2-story parish house and church at Madison Ave. and 31st St., for the Madison Avenue Baptist Church. Butler & Rodman, 16 East 23d St., are Archs.

Plans have been filed for a 6-story school building to be built for George Dickson, of Toronto, Ont., at 48 and 50 West 54th St. It is to be of brick and limestone and cost $150,000. Robert T. Lyons, 31 Union Sq., is Arch.

Plans have been filed for the enlargement and remodeling of the Calvary M. E. Church at Seventh Ave. and 129th St. It is to be made over into a 4-story and basement edifice, with a facade of brick and stone and corner tower and spire. It will be fitted with two passenger elevators. Estimated cost $100,000. Bannister & Schell, 69 Wall St., are Archs.

Townsend, Steinle & Haskell, Archs., 29 East 19th St., are preparing plans for a 12-story apartment house which the Lenox Realty Co. will erect at Central Park West and 75th St. The building is to be brick, stone and steel, fireproof construction, and is estimated to cost $1,000,000.

Plans have been filed for the erection of a brick car house at 128th St. and Amsterdam Ave., for the New York City Ry. Co., 621 Broadway. Estimated cost, $150,000. A. V. Porter, 621 Broadway, is Arch.

NEW YORK, N. Y.—Plans have been completed by Grosvenor Atterbury, Arch., 20 West 43d St., for a 12-story loft building at 44 West 18th St. for Henry Phipps. Structure will be 79 × 184 ft. and cost $300,000.

F. H. Nadler, 72 Allen St., will let contracts for the construction of seven flat buildings on 139th St., near Lenox Ave. Buildings will be 6 stories high, 42 × 87 ft., brick, stone and terra cotta, costing $300,000. Stern & Morris, 1133 Broadway, are Archs.

Mulliken & Moeller, Archs., 7 West 38th St., are preparing plans for a 10-story, stone and terra cotta apartment house to be erected at Broadway and 101st St. for the Central Realty Co., 7 East 42d St. Building will be 100 × 120 ft. and cost about $350,000.

Plans have been filed by C. B. J. Snyder, Supt. of Bldgs., Dept. Education, for a 6-story school building to be erected at Jackson and Madison Sts. Brick, stone and terra cotta, 250 × 162 ft. Estimated cost, $350,000.

Samuel Sass, Arch., Park Row Bldg., has completed plans for an 11-story brick building to be erected at 15th St. and Fifth Ave. for the Richman Realty Co. Estimated cost, $750,000.

NEW YORK, N. Y.—Karp & Heller, 9 West 117th St., will take bids for the erection of four flat buildings on 147th St., near Amsterdam Ave. Five stories, 50 × 88 ft., brick, stone and terra cotta, costing $260,000.

The FLEISCHMANN REALTY & CONSTRUCTION CO., 170 Broadway, has been awarded the general contract for the erection of a 12-story brick, stone and terra cotta loft building at 32 West 21st St. for Charles Kaye, 36 East Ninth St. 50 × 84 ft., costing about $150,000.

GUIDONE & GALARDI, 1 Madison Ave., have been awarded the contract for the extension to the 13th Regt. Armory, Borough of Brooklyn, at $108,900.

TROY, N. Y.—W. L. Wollett, 57 State St., Albany, is Arch. for a 6-story, brick stone and steel apartment house, to be erected at Second and State Sts., for the Rensselaer Realty Co. Building will be fireproof, 50 × 139 ft., costing about $160,000.

DEAL BEACH, N. J.—Plans have been accepted by Council for a concrete casino to cost $50,000. David M. Ach, 1 Madison Ave., New York, is Arch.

TRENTON, N. J.—Henry D. Dagit, Arch., 435 Chestnut St., Philadelphia, has been commissioned to prepare plans for the new parochial school for the Church of the Immaculate Conception at this place, costing about $70,000.

HADDONFIELD, N. J.—The contract for the construction of the First Presbyterian Church has been awarded to ALEXANDER CHAMBLEY, 243 South Tenth St., Philadelphia. Stone, 1-story, costing $50,000.

PITTSBURG, PA.—The Commonwealth Trust Co. has awarded the contract for the erection of an office building to A. & S. WILSON CO. Estimated cost, $750,000. F. J. Osterling, 701 Times Bldg., is Arch.

ALLENTOWN, PA.—H. G. SCHELDON & CO., 129 North Madison St., have been awarded a contract to construct a 5-story fireproof store and office building for John W. Eckert. Brick, stone and steel, costing $60,000.

ALLEGHENY, PA.—Plans are being prepared by Beezer & Beezer, Archs., Vilsack Bldg., for an 8-story office and bank building for the Real Estate Savings & Trust Co. Building will be 50 × 100 ft., costing $100,000.

PHILADELPHIA, PA. — WILLIAM R. DOUGHERTY, 1604 Sansom St., has been awarded a contract at $250,000 for the construction of a 10-story building at 921 Walnut St. for Charles C. Harrison, of the University of Pennsylvania. Cope & Stewardson, 329 Walnut St., are Archs.

The general contract for the construction of the 5-story addition to the store of Mitchell Fletcher & Co., at 18th and Chestnut Sts., has been awarded to WILLIAM STEELE & SONS, 1000 Arch St., at about $60,000.

Frank C. Koenig, Arch., has prepared plans for a new church for St. Ludwig's congregation at 28th and Master Sts. Building will be granite, 63 × 162 ft., with a 180-ft. tower, and cost $100,000.

PHILADELPHIA, PA.—Wilson Harris & Richards, Archs., Drexel Bldg., are preparing plans for an addition to the Women's Homeopathic Hospital. Fireproof, 4-story, brick, stone and steel.

HARRISBURG, PA.—T. H. Hamilton, Arch., is preparing plans for an office building for Johnston & Co. Brick, stone and steel, four stories.

C. H. Lloyd, Arch., 216 Market St., is preparing plans for a hotel for C. Hershey. Brick, stone and steel, 5-story, costing $70,000.

PHILADELPHIA, PA. — ALEXANDER CHAMBLEY has been awarded a contract to erect a storage house, six stories, 50 × 120 ft., for L. A. Belmont, at about $60,000. Charles Oelschlager, 1009 Harrison Bldg., is Arch.

DELAWARE CITY, DEL.—Bids are asked until 11 a. m., April 16, for constructing shelters for searchlight trucks at Fort Du Pont, Del., and Fort Mott, N. J. Capt. Louis F. Garrard, Jr., Q. M. (Advertised, Engineering News.)

DELAWARE CITY, DEL.—Bids are asked by James Knox Taylor, Supervising Arch. Treasury Dept., Washington, until 3 p. m., April 14, for the construction of a hospital, storehouse, etc., at the Reedy Island Quarantine Station.

BALTIMORE, MD.—The Maryland Apartment Co., Equitable Bldg., is having plans prepared for an 8-story, stone and steel fireproof apartment house to be erected at Charles and Reed Sts.

BALTIMORE, MD.—The CHARLES McCAUL CO., American Bldg., has been awarded the contract for constructing an 8-story, fireproof, brick, stone and steel building at Baltimore and Hanover Sts. for Isaac Hamburger & Son. 67½ × 142 ft., costing $200,000.

WASHINGTON, D. C.—Bids are asked until 2 p. m., April 21, for a mechanical equipment for the municipal building. Capt. Chester Harding, Corps Engrs., Supervisor of Construction. (Advertised, Engineering News.)

WASHINGTON, D. C.—The Chase Granite Co., 11 Broadway, New York, was lowest bidder for furnishing granite for mess hall and dormitory building at the Soldiers' Home, at $26,805. Bids were opened March 5 by Capt. John Stephen Sewell, Engr.

NORFOLK, VA.—E. Tatterson was the lowest bidder for concrete construction at $152,727, and Betts-Hayden Co., for steel construction at $170,000, in connection with the erection of the new Fairfax Hotel. Breese & Mitchell, 33 Chamberlain Blk., are Archs.

It is reported that the HANLEY-CASEY CONSTRUCTION CO., Atlantic Bldg., has been awarded contract by the board of governors of the Jamestown Exposition Co. for the construction of the two largest buildings of the exposition, at Sewells Point. Each building will be about 75 ft. high and 535 × 300 ft. Contract price, $232,950.

WINCHESTER, VA.—It is stated that bids for the erection of the proposed Handley Memorial library will be called for in about 30 days; probable cost of construction, $100,000. Barney & Chapman, 520 Fifth Ave., New York, are Archs. A. M. Baker is Chn. Bldg. Com.

CHARLESTON, S. C.—Bids are asked by the Bureau of Yards and Docks, Navy Dept., Washington, until 11 a. m., April 28, for the construction of a 3-story brick and steel building at the navy yard here. Mordecai T. Endicott, Chief of Bureau.

ORANGEBURG, S. C.—D. G. Zeigler, Arch., Sumter, S. C., is reported to have prepared plans for a 5-story hotel, 60 × 151 ft., for Wolfe & Berry, Orangeburg. Brick, concrete blocks and terra cotta, iron and steel, costing $60,000.

JACKSONVILLE, FLA.—H. H. Jackson, Arch., 106 Main St., is preparing plans for an 11-story Masonic temple, 90 × 105 ft. Brick, stone and terra cotta, steel construction, costing $300,000.

JACKSONVILLE, FLA.—It is stated that W. W. Cummer and C. D. Rinehart are interested in the construction of a new Y. M. C. A. building, to cost $80,000.

FERNANDINA, FLA.—Bids are asked until 3 p. m., April 10, by the Fernandina Hotel Co. for the construction of a hotel. Samuel A. Swann, Pres.

OCALA, FLA.—Bids are asked until noon, April 6, for the construction of a court house. W. Chamberlain & Co., Birmingham, Ala., Archs. H. W. Long, Chn. Bd. County Comrs.

NEW ORLEANS, LA.—It is reported that Stone Bros., Archs., Cora Bldg., will prepare plans for a new theater to be erected on Dauphine St. Building will be 112 × 180 ft., and cost $125,000.

GRAND ISLE, LA.—According to reports the Lafitte Hotel & Park Co., Ltd., 809 Hennen Bldg., New Orleans, will erect a 3-story building, 40 × 440 ft., of concrete with cement blocks, fireproof construction, costing $300,000. T. B. Singer, Sterling, Ill., is Arch.

TOLEDO, O.—A. BENTLEY & SONS, according to reports, have been awarded a contract to construct a 5-story building at Erie and Orange Sts. for Charles Stollberg. Structure will be 94½ × 123 ft., mill construction, and cost $50,000.

ZANESVILLE, O.—We are officially advised that all bids for the construction of a church here received on March 15, have been rejected and new bids will be asked in 30 days. Badgley & Nicklas, 1273 Euclid Ave., Cleveland, are Archs. R. C. Burton is Chn. Bldg. Com.

INDIANAPOLIS, IND.—Rubush & Hunter, Archs., have completed plans for a Masonic temple, to be erected at Michigan and New Jersey Sts. Building will be 150 × 112 ft., stone, fireproof construction, costing $250,000.

Plans have been completed by Blaine H. Miller, City Engr., for rebuilding the city hospital at a cost of $93,425.

CHICAGO, ILL.—Nimmons & Fellows, Archs., 204 Dearborn St., are reported to be taking figures for an office and mercantile building, to be erected at Congress St., and Fifth Ave., for J. V. Farwell. To be eight stories, 80 × 100 ft., built of brick and steel, fireproof construction, costing $300,000.

D. H. Burnham & Co., Archs., Railway Exchange Bldg., are taking figures for a store building, to be erected at State and Washington Sts., for Marshall Field & Co. To be 12-story, 160 × 150.6 ft., built of granite, brick and steel. Estimated cost, $1,500,000.

CHICAGO, ILL.—It is reported that A. E. Colcord, Arch., 108 Dearborn St., will have plans ready about March 27 for an apartment building to be built at Drexel Boulevard and 50th St., for L. C. Wagner, 449 East 63d St. It will be 3-story, brick and stone, and cost about $100,000.

Nimmons & Fellows, Archs., 204 Dearborn St., will let contracts soon for a mercantile building to be built at Fifth Ave. and Congress St. for J. A. Farwell. It will be 8-story, 80 × 100 ft., of mill or steel construction, brick and terra cotta, and cost $300,000.

DULUTH, MINN.—The contract for the construction of the addition to the McKay Hotel on West First St. is reported to have been let to JOHN GRANDY, Burrows Bldg., at about $50,000. J. J. Wangenstein, Arch., 401 Providence Bldg.

MINNEAPOLIS, MINN.—NEWMAN & HOY, Chamber of Commerce Bldg., St. Paul, received the entire contract for the erection of the building at the State Agricultural College here, at about $250,000. C. H. Johnson, Arch., 712 Manhattan Bldg., St. Paul. Noted on March 8.

ST. PAUL, MINN.—G. H. Carsley, Arch., 524 Endicott Bldg., is preparing plans for a 6-story warehouse and office building for J. H. Allen & Co., at Sixth and Rosabel Sts. Building will be 100 × 165 ft., reinforced concrete construction, and cost about $200,000.

Louis Lockwood, Arch., German American Bank Bldg., will prepare plans for a 2-story bank building for the First National Bank. Bedford stone or Georgia marble exterior, with marble interior finish, costing $200,000.

DENVER, COLO.—It is reported that Mrs. Lucile B. Ray, of Minneapolis, Minn., will build a 4-story apartment house at 16th Ave. and Ogden St. Building will be 145 × 200 ft., and cost $200,000.

SEATTLE, WASH.—W. D. Van Siclen, Arch., 724 New York Block, will prepare plans for a 4-story brick building, to be erected at Fourth and Pike Sts. for Stirrat & Goetz. Estimated cost, $200,000.

PORTLAND, ORE.—The Mitchell, Lewis & Staver Co. will erect a 5-story brick building on East Second St. at an estimated cost of $80,000.

SAN MATEO, CAL.—Bids are asked until April 5 for the construction of a public library building. Coxhead & Coxhead, Archs., 731 Sutter St., San Francisco. Charles N. Kirkbride, Secy. Library Trustees.

LOS ANGELES, CAL.—C. LEONARDT has been awarded a contract to construct a 10-story building at Fifth and Spring Sts., at $229,150. Parkinson & Bergestrom, Braly Block, are Archs.

RIVERSIDE, CAL.—It is reported that Arthur B. Benton, Arch., Los Angeles, has submitted plans for a new Y. M. C. A. building here, to cost $60,000.

OGDEN, UTAH.—The Iowa Mfg. Co., Oskaloosa, Ia., was lowest bidder for installation of steam heating apparatus in the post office and court-house here at $3,877.

The opening of bids for the wiring of the post office and court-house, Ogden, has been postponed from March 14 to March 27. (Advertised, Engineering News, Feb. 22-March 1.)

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—Bids are asked until noon, March 28, by the water department, for furnishing 980,000 lbs. of iron castings under one contract and 37,500 lbs. of composition castings under another.

OXFORD, MASS.—It is said that the Oxford Water Co. will construct water-works at an estimated cost of $30,000. Parker & Bateman, Clinton, Mass., are Engrs.

SOUTH AMHERST, MASS.—Plans are being prepared for an extension of the Amherst Water Co.'s system to this city at an estimated cost of $18,000.

SPRINGFIELD, MASS.—F. T. LEY & CO., Springfield, Mass., have been awarded the contract for intermittent filters, as noted in issue of March 1, at $12,493. Other bidders were: Bruno, Salomone & Petitti, Boston, Mass., $13,725; Rowe & Perini, South Framington, Mass., $14,875; William Orlando, Belchertown, Mass., $17,695; August Saucier, South Framingham, M... O'Connel & Son, Holyoke, ... $13,722; D... $16,191.

PROVIDENCE, R. I.—... tucket River Co. has secur... 300 acres of land in the ... and in the near future w... menced on one of the lar... the state.

YONKERS, N. Y.—Bids ... p m., April 12, by the Boa... missioners for an 8,000,000 ... high duty triple expansio... Devitt is Pres. (Advertised, ... News.)

ROCHESTER, N. Y.—... STATES CAST-IRON PIPE ... CO. has been awarded the ... nishing water pipe and cas... rent year, at $73,786. Bid ... Iron Works Co. was $77,8... is City Engr.

WOODMERE (L. I.), N. Y.—... has been awarded contract ... water-works plant for the I... Co.

NEW YORK, N. Y.—Mayo... proposed to William B. Ellis... er of Water Supply, Gas and ... construction of an immense ... for all the Croton water ... New York. In a letter to ... has suggested that such a ... built in the Jerome Park r... all the water shall be clea... reaches the city pipes.

The lowest estimate of the c... is $10,000,000, and it is thoug... gineers that the cost will be $...

NEW YORK, N. Y.—Bids ... 2 p. m., April 4, by the C... Water Supply, Gas and Ele... lead, cocks, nozzles, water pipe ... ings, gate valves and for the ... water mains in 190th St., Cro... Jackson and Seventh Aves., ... and Fort Hamilton, Grave... Eighth, Stillwell and 24th Ave... 44th, 60th, 65th, 75th and We... Brooklyn. William B. Ellison ...

CAPE MAY, N. J.—We are ... formed that the city engineer ... plans for 9,000 ft. of water ma... drants, etc. Bids will probably be asked in April. D. D. Barlow is City Engr.

RAHWAY, N. J.—It is reported that the FEDERAL FILTRATION SYSTEM, 141 Broadway, New York, has been awarded contract for a filter plant and stand-pipe, at $51,350. H. B. Bunn is Supt. of Water Works.

EAST ORANGE, N. J.—Specifications for furnishing and laying cast-iron pipe, etc., as noted in issue of March 15, are on file at office of Engineering News, New York.

ANGLESEA, N. J.—It is reported that council has appropriated $50,000 for the construction of a water-works system.

ORANGE, N. J.—Bids are asked until ... p. m., April 9, for furnishing and laying 20-in. c.-i. pipe and specials. Fred T. Crane is City Engr. (Advertised, Engineering News.)

PHILADELPHIA, PA.—Bids are asked until noon, April 26, by the Department of Public Works for pumping engines, pumps, boilers, etc., for Torresdale filters. Thomas L. Hicks is Director. (Advertised, Engineering News.)

ERIE, PA.—Bids are asked until March 24 by the Commissioners of Water-Works for furnishing gray iron castings for the year, from April 1. Geo. C. Gensheimer is Secy.

HARRISBURG, PA.—It is reported that water mains are to be laid in many of the streets of this city. M. B. Cowden is City Engr.

PITTSBURG, PA.—According to the Chicago Chronicle the Pennsylvania R. R. has practically concluded arrangements to sell serial bonds to the amount of $15,000,000 to construct water plants on the main line between Pittsburg and New York.

It is reported that the Public Works Committee has authorized the purchase of 16,000 water meters.

WILMINGTON, DEL.—Two bids have been received for an experimental sand filtration plant, as follows: Pittsburg Filter Manufacturing Co., $2,400; New York Continental Jewell Filtration Co., $6,000. T. A. Leisen is Ch. Engr.

WILMINGTON, DEL.—It is reported that the Delaware Water Co. has applied for a franchise to establish a water system to supply the P., B. & W. R. R. Co. Water will be piped from Bufort Lake. Harry Emmons, Wilmington, is counsel for the water company.

PARKTON, MD.—It is said that the Northern Central Ry. Co. will build a reservoir at this place. H. W. Kapp is Division Supt., Baltimore.

WASHINGTON, D. C.—The District Commissioners have issued orders for laying an 8-in. water main in Randolph St., between Seventh St. and New Hampshire Ave., N. W., and in Eleventh St., N. W., north from Columbia Road.

MANCHESTER, VA.—It is reported that this city will soon build a filtration plant to cost $20,000.

PORTSMOUTH, VA.—It is said that the Portsmouth, Berkly & Suffolk Water Co. will erect complete filter plant, to cost $25,000.

NORFOLK, VA.—The following bids have been received for water system, including sewer and electrical work, at Norfolk Navy Yard: McCay Engineering Co., 9 East Lexington St., Baltimore, Md., $11,... Penn Bridge Co., Beaver Falls, Pa., $8,... Newport Plumbing, Heating & Tinning Co., 214 28th St., Newport News, Va., $11,... M. W. Hill Co., 405 Courtland St., Baltimore, Md., $12,700.

NORFOLK, VA.—It is planned to lay a 16-in. water main to the grounds of the Jamestown Exposition. W. T. Brooke is City Engr.

PROPOSED WORK

ENGINEERING News desires to obtain the earliest possible reliable information concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

Address: WAINWRIGHT RANDALL
Editor Construction News

SUFFOLK, VA.—The council has authorized the purchase of Lake Savage, which will be used as a source of water supply at the expiration of the town's contract with the Portsmouth, Berkeley and Suffolk Water Co.

FORT MYER, VA.—Bids are asked until 2 p. m., April 13, by Capt. A. W. Butt, Q. M., U. S. A., Washington, D. C., for extension of the water extensions at Fort Meyer.

CARTHAGE, N. C.—We are informed that it is planned to construct a water-works system here during the year. D. A. McDonald is Member of Town Council.

MARSHALL, N. C.—Bonds have been voted and as soon as they are sold a new water-works system will be constructed. Dr. W. J. Weaver is Treas. Bd. Pub. Improvements.

CHARLESTON, S. C.—The following bids have been received for the erection of pump house and pumping machinery for Dry Dock No. 1 at the Charleston Navy Yard: The Scofield Co., 903 Pennsylvania Bldg., Philadelphia, Pa. (item 1), $108,937; to be complete in six months after foundations are ready. Allis-Chalmers Co., 246 Clinton St., Milwaukee, Wis. (item 3), $130,000; 12 months for completion. Camden Iron Works, Camden, N. J. (item 3), $63,900, (item 4), $61,500.

ADAIRSVILLE, GA.—It is proposed to build a new water-works system here at an estimated cost of $20,000. J. P. Bondoin is Mayor.

SAVANNAH, GA.—Bids are asked until March 22 by the Department of Water-Works for c.i. pipe. I. V. Kinsey, Supt.

LIVE OAK, FLA.—Bonds to the amount of $200,000 have been voted and as soon as they are sold the money will be used for water-works improvements, sewerage and paving. S. P. Mayo is City Secy.

NORTH BIRMINGHAM, ALA.—It is reported that $40,000 will be expended for the construction of a water-works system. W. C. Harkins is City Treas.

BREAUX BRIDGE, LA.—J. McIntosh, Engr., Houston, Tex., has been appointed to prepare plans for the proposed water-works here. Estimated cost is $40,000.

ABBEYVILLE, LA.—It is reported that contracts have been let for water-works and lighting construction to cost $58,000. Geo. W. Summers is City Clk.

JELLICO, TENN.—It is reported that H. H. Carr and others have secured a pranchise and will begin the construction of a water-works plant at once.

FOSTORIA, O.—It is said that a 1,200,000 gallon filter will be installed here. Riggs & Sherman, Toledo, are Engrs.

CLEVELAND, O.—The village of Newburg has voted to issue bonds for $44,000 to cover cost of extending city water system to their village.

MEDINA, O.—The Board of Public Affairs has employed E. G. Bradbury, Engr., of Columbus, O., to make plans for a system of water-works and sewerage, with disposal plant.

DAYTON, O.—Bids are asked until noon, March 27, by the Board of Public Service for water meters of various sizes. W. F. Miller is Clk.

EAST LIVERPOOL, O.—Bids have been received for furnishing iron water pipe, as follows: James B. Clowe & Son, Chicago, 6, 10 and 16-in., $27.95 per ton; Massillon Iron Co., 16-in., $2,790, 6 and 10-in., $28.90; United States Cast-Iron Pipe & Foundry Co., 6, 10 and 16-in., $28.30.

CINCINNATI, O.—Bids are asked until noon, April 2, by the Board of Public Works for water pipe and castings. M. J. Keefe is Clk.

Bids are asked until noon April 10, for laying water mains, etc., during the year 1906. Aug. Herrman is Pres., Comrs. of Water Wks.

Specifications and blank proposals for laying cast-iron pipe, as noted in issue of March 1, are on file at office of Engineering News, New York.

CLEVELAND, O.—Bids are asked until noon, March 29, by the Board of Public Service, for water tube boilers. W. J. Springer is Pres. (Advertised, Engineering News.)

ANDREWS, IND.—The Andrews Light & Water Co., has been incorporated with $10,000 capital. The plan is to build a new water and light plant. H. B. Thornton, W. E. Nichols and J. H. Moore are the incorporators.

FRANKFORT, IND.—It is reported that a new water-works system, including 22 miles of c.-i. mains and 195 fire hydrants, will be built by Francis M. Clark and others who have just been granted the franchise.

COLUMBUS, IND.—Bids are asked until 8 p. m., April 16, by George Vorwald, City Clk., for a wooden infiltration gallery. W. H. Rights is Engr. (Advertised, Engineering News.)

GRAND RAPIDS, MICH.—Plans are being prepared, it is said, for an extension of the city water system which will involve an expenditure of $125,000. L. W. Anderson is City Engr.

MUSKEGON, MICH.—An entirely new water system is planned. Ground has been purchased at Muskegon Heights and the work, which includes stand-pipe, etc., will be let as soon as bonds are sold.

ISHPEMING, MICH.—It is reported that the FRED. M. PRESCOTT PUMP CO., Milwaukee, Wis., has been awarded the contract for a 3,000,000-gallon pump. P. H. Devine is Supt. Pub. Wks.

HASTINGS, MICH.—It has been decided to issue bonds for $35,000 for the extension of water-works. J. M. Patten is City Clk.

ESCANABA, MICH.—It is reported that the Escanaba Water Co. contemplates the erection of a filtration plant.

CASEY, ILL.—It is planned to erect a 100,000-gallon stand-pipe and install a power pumping plant in connection with the new water system here, according to press reports.

WAUKESHA, WIS.—Council has ordered a bond issue of $70,000, the money to be used in extending the water-works system. William Powrie is City Engr.

ALBIA, IA.—A water-works system to cost $35,000 will be built here, according to reports. Bids will be asked about April 1. C. R. Allen, of Ottumwa, is Engr. T. J. Baird, City Clk.

MINNEAPOLIS, MINN.—A grant of $100,000, to cover all extensions of water system petitioned for, has been made by the council. Work to begin at once. Andrew Rinker is City Engr.

MINNEAPOLIS, MINN.—Bids have been received at follows for material, etc., to be used by the water department: Twenty tons pig lead, f. o. b. Minneapolis, Janney, Semple, Hill Co., Minneapolis, Minn., $108 per tons; Great Western Smelting & Roofing Co., St. Paul, Minn., $115 per ton. Andrew Rinker is City Engr.

WILLISTON, N. DAK.—A $1,000,000 contract between the Secretary of the Interior and the officials of the Williston Water Users' Association has been signed and construction work will be begun at once.

FARGO, N. DAK.—Bids are asked until 5 p. m., March 26, by H. J. Gibson, City Audr., for constructing water mains.

TRENTON, MO.—The city has voted to issue bonds for $80,000 for the purpose of either buying and improving the present plant or building an entirely new system.

PERRY, OKLA.—Bonds for $25,000 have been sold and water-works will be built at once. F. F. Busch is City Clk.

LAWTON, OKLA.—The Senate has appropriated $60,000 to complete the water-works system here.

WAYNNEWOOD, IND. T.—Bids are asked until March 25 for the construction of a water-works system.

ROFF, IND. T.—It is reported that the people of this city have voted to issue bonds to the amount of $25,000 to cover the cost of building a water-works system.

DAVIS, IND. T.—W. W. COOK & SON, of Junction City, Kan., have beeen awarded the contract for installing a complete water-works system, at $25,000.

LA JUNTA, COLO.—It is reported that $50,000 has been voted for the construction of a new water system.

FORT MORGAN, COLO.—D. A. CANFIELD, of Greeley, Colo., has been awarded contract for construction of the Empire reservoir, at $535,000, by the directors of the Bijou irrigating district.

FOWLER, COLO.—Plans have been filed with the county surveyor for a reservoir and ditch to be constructed by the Hardesty Reservoir, Canal & Land Co., in the southeastern part of Pueblo County, about 15 miles south of Fowler. The plan contemplates the impounding of flood water from Mustang creek and storing it in the reservoir, from which it will be released to several thousands of acres below the reservoir. The estimated cost is $30,000.

BALLARD, WASH.—Plans are being prepared for a steel tower with a capacity of 200,000 gallons. J. Bostian is City Engr.

HILLYARD, WASH.—It is reported that two companies have applied for water franchises in this city and both will probably be granted.

SUNNYSIDE, WASH.—It has been decided to build a water-works system at a probable cost of $18,000. W. B. Cloud, Chn. Finance Com., writes that bids will be opened in about 60 days.

SPRINGFIELD, ORE.—Plans are being prepared for the construction of a water system.

SAN RAFAEL, CAL.—Arrangements have been made by the Howard-Shafter syndicate to construct a tremendous reservoir on its own lands which will have a capacity of 2,000,000,000 gallons. Estimated cost of construction is $1,000,000.

SEBASTOPOL, CAL.—Bids are asked until April 3 for the construction of water-works. Address the Mayor.

SACRAMENTO, CAL.—It is said that the Yolo County Consolidated Water Co. intend to build a restraining dam at the head of Cache Creek and construct a power house as well as furnish water for irrigation.

PASADENA, CAL.—A reservoir to cost $6,000 is to be constructed for the Rubio Canyon Land & Water Co., at the mouth of Rubio Canyon. The work will begin immediately. F. S. Allen, Secy.

TONOPAH, NEV.—The Owens River Power Co., it is reported, will construct a large reservoir at this place.

VERNAL, UTAH.—Application to divert water from the Green River for irrigating 54,000 acres of land has been made by James Hackings and construction work will begin at once.

PRICE, UTAH.—It is reported that this city plans the construction of a water-works system.

NAMPA, IDAHO.—Bids are asked until March 26 by the Board of Trustees of the Nampa and Meridian Irrigation District for the construction of an earth dam. Estimated cost, $25,000. G. T. Hammil, Secy.

LEWISTON, IDAHO.—Contract will be let at once for moving 100,000 cu. yds. of earth for the purpose of forming a reservoir. Haul about 500 ft. Lewiston Sweetwater Irrigation Co., Ltd., will give particulars.

TROY, IDAHO.—A reservoir will be built here and a complete water system installed. Surveys are now being made.

POTLACH, IDAHO.—We are informed that bids for the construction of a water-works and sewer system will be asked about April 1. J. H. Cunningham, 452 Sherlock Bldg., Portland, Ore., is Engr.

AMHERST, N. B.—According to press reports $80,000 has been voted for water-works improvements. A. Barber is City Engr.

OTTAWA, ONT.—Grants aggregating $100,000 have been made by the city council for additional water mains and water-works extensions.

SASKATOON, SASK.—Willis Chipman, of Toronto, Ont., is preparing plans for water-works and a sewerage system for Saskatoon, to cost $150,000.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

SALEM, MASS.—Bids are asked until noon, April 5, by the Sewerage Commissioners for construction of two sections of trunk sewer. Thos. G. Pinnock, Chn.; Ernest W. Bowditch, Engr. (Advertised, Engineering News.)

BOSTON, MASS.—Plans and specifications for sewers, as noted in issue of March 15, are on file at office of Engineering News, New York.

NEW BRITAIN, CONN.—It is reported that bids will soon be asked for 19,147 ft. pipe sewers, with 51 manholes and 830 cu. yds. rock excavation. Wm. H. Cadwell is Ch. Engr., Sewer Dept.

NEW YORK, N. Y.—Bids are asked until 3 p. m., March 28, by John F. Ahearn, Pres. Manhattan Boro., for sewers in West 143d St., West 144th st. and Amsterdam Ave., also for manhole heads and other castings.

NEW YORK, N. Y.—Bids are asked until 11 a. m., March 29, by Louis F. Haffen, Pres. Bronx Boro., for reconstruction of sewer in East 169th St.

NEW YORK, N. Y.—Bids are asked until 11 a. m., April 2, by C. B. J. Snyder, Supt. School Bldgs., for installing electric equipment in public school 92, Brooklyn; heating and ventilating apparatus in public school 53, Manhattan, and electric equipment in Stuyvesant High School, Manhattan.

NEW YORK, N. Y.—Bids are asked until 3 p. m., April 4, by John F. Ahearn, Pres. Manhattan Borough, for sewer construction in Cedar St. and 172d St.

ROCHESTER, N. Y.—The city engineer is preparing plans for a complete new sewer system for the city. Edwin A. Fisher, City Engr.

SCHENECTADY, N. Y.—It is reported that plans are being prepared for sewer construction in Ninth and Tenth Wards. J. Scott is City Engr.

CORTLAND, N. Y.—Bids are asked until 8 p. m., April 2, by the Board of Public Works for 8,800 ft. of tile sewers and appurtenances. E. S. Dalton is City Clk. (Advertised, Engineering News.)

PATERSON, N. J.—It is reported that this city will soon install a sewage disposal plant at a cost of $100,000.

Date for receiving bids for sewers, noted in issue of March 15, has been extended to April 5. H. J. Harder is City Engr.

MOUNT GRETNA, PA.—JOHN STOEBER has received the contract for sanitary and storm sewerage system for the camp meeting grounds here.

EXTER, PA.—JOHN McGRATH, of Pittston, is reported to have secured the contract for constructing sewers here, at $15,500.

PHILADELPHIA, PA.—A permit is reported to have been issued to the Rapid Transit Co. to lay two sewers along Market St., between Juniper St. and the Delaware River. W. S. Twining is Ch. Engr.

Bids are asked until noon, April 2, by Thos. L. Hicks, Dir. Dept. Pub. Wks., for sewer construction and repairs.

HARRISBURG, PA.—Plans are being prepared for sewer construction to cost $100,000. M. B. Cowden is City Engr.

WILMINGTON, DEL.—It is stated by George Rommel, Jr., Engr., Sewer Dept., that plans are being prepared for new sewerage in various parts of the city.

ATLANTA, GA.—We are informed that SCIPLE'S SONS have been awarded contract for furnishing pipe for the current year, at $12,690. DUNN BROS. were the successful bidders for sewer construction, at $34,195. SCIPLE'S SONS will furnish cement, at 63½ cts. per 100 lbs. R. M. Clayton is City Engr.

GAINESVILLE, FLA.—The following are reported to be the bids received by Board of Public Works for constructing about 12 miles of 6 to 15-in. pipe sewers: J. H. McKenzie Sons, Augusta, Ga., $58,181; L. S. Russell, Birmingham, Ala., $52,500; W. T. Hadlow Co., Jacksonville, $52,733; Black & Ladd, New Orleans, La., $52,520; Bryan & Co., Jacksonville, $46,371, and F. H. Beeman, Louisville, Ky., $43,385.

PENSACOLA, FLA.—Plans, specifications and blank proposals for sewer work, noted in issue of March 8, are on file at office of Engineering News, New York. Date for receiving bids is April 19. (Advertised, Engineering News.)

NASHVILLE, TENN.—The Board of Public Works has instructed the city engineer to advertise for bids for the construction of a new 15-in. clay pipe sewer on Fern St., according to press reports. W. W. Southgate is City Engr.

NORTH BIRMINGHAM, ALA.—It is said that this city has voted to issue bonds for $50,000 to cover cost of a sewer system. W. C. Harkins is City Treas.

WEST END, ALA.—Bids are asked until noon, April 3, for the construction of a sanitary sewer. P. S. Miller is City Engr.

GEORGETOWN, KY.—Specifications and blank proposal for four miles of sewers, as noted in issue of March 8, are on file at office of Engineering News, New York.

PADUCAH, KY.—Plans are being prepared for construction of sewers in a new sewerage district. L. A. Washington is City Engr.

BARBERTON, O.—The W. P. Rice Engineering Co., Cleveland, has been engaged to draw up plans for a new sewer system. H. W. Alcorn is City Engr.

NORWOOD, O.—We are officially informed that the contract for constructing sanitary sewer, as noted in issue of Feb. 22, has been let to CASTOE & WARNER, Bellaire, O., at $24,000. Other bidders were: Thos. P. Strack, Atlas Bank Bldg., Cincinnati, O., $28,662; Babbitt & Barr, Batavia, O., $33,914; C. T. McCracken & Co., Cleveland, O., $26,301; Westwater & Casey, Wyandotte Bldg., Columbus, O., $22,960; John B. McLane & Co., 218 East Fifth St., Newport, Ky., $24,394; John Snyder, Norwood, O., $34,994; Wm. Heffron Construction Co., Cincinnati, O., $30,961.

CINCINNATI, O.—HENKLE & SULLIVAN have been awarded the contract for the construction of the Seminole St. sewer.

CLEVELASD, O.—Plans have been prepared for a main intercepting sewer outlet, pipes, settling basin, filters, etc., to cost not more than $110,000. Peter Witt is City Clk.

MEDINA, O.—See under Water Supply—Irrigation.

ZANESVILLE, O.—An ordinance is reported to have been adopted, providing for an appropriation of $78,000 for sewers in the northwestern district. E. H. Smith is City Engr.

HAMMOND, IND.—LAVENE BROS. have been awarded the contract for constructing two sewer systems at $1.48 and $1.59 per ft.

LAWRENCE, IND.—FRANK C. MORTIMER, of Chicago, has been awarded the contract for constructing the sewerage purification plant at Ft. Harrison, at $25,826. It will consist of a septic tank, contact beds and filters.

LANSING, MICH.—MATTHEW & PERRY have been awarded the contract for constructing a new sewer in Water St.

BELLEVILLE, ILL.—Council has passed ordinances providing for the expenditure of $125,000 for the construction of sewers and paving several streets. Lee Harper is City Engr.

MINNEAPOLIS, MINN.—Contracts have been awarded as follows, for material, noted in issue of March 15: NORTHWESTREN LIME CO., Portland cement; STANDARD FOUNDRY CO., special castings; RED WING SEWER PIPE CO., sewer pipes. Andrew Rinker, City Engr.

MINNEAPOLIS, MINN.—The city council has voted to construct a number of new sewers at an aggregate cost of $214,507. The work of constructing will be done during the coming spring and summer and be completed by Nov. 1. Andrew Rinker is City Engr.

ST. PAUL, MINN.—According to press reports, plans are being prepared for the construction of a new sewer system at an estimated cost of $70,000. J. S. Grode is Pres. Bd. Pub. Wks.

ATCHISON, KAN.—The council has passed a resolution for the construction of sewers in Districts U and V, requiring about 13,000 ft. of 36 to 8-in pipe. Fred. Giddings is City Engr.

McCOOK, NEB.—Bids are asked until April 2, by W. A. Middleton, City Clk., for constructing sewers.

BEATRICE, NEB.—H. C. GARDNER, of Lincoln, Neb., has been awarded the contract for construction of a new sewer here.

SPRINGFIELD, MO.—COOPER BROS. and E. PLUMMER have been awarded contracts for construction of new sewers here.

ST. LOUIS, MO.—Ordinances appropriating $250,000 for the construction of the Harlem Creek sewer have been passed by the city council. Plans are being prepared for extensions of sewerage throughout the city and further appropriations of $200,000 will be asked.

SAPULPA, IND. T.—Plans have been prepared by D. B. Merry, Tulsa, Ind. T., for new sewers to cost about $14,000 and work will begin in the near future.

PUEBLO, COLO.—It is reported that the STANDARD CONSTRUCTION CO. has been awarded the contract for constructing a new sewer 1,600 ft. long.

SANTA FE, N. M.—The bid of the SANTA FE HARDWARE AND SUPPLY CO. for the construction of the Fort Marcy sewer was accepted at 31½ cts. per ft.

OAKLAND, CAL.—The contract for sewering 62d St. was awarded to MICHAEL MURPHY.

CLOVERDALE, CAL.—Contract for the construction of a sewer system here has been awarded to WILLIAM HEAFEY at $17,498. Other bids were: R. C. Mattingly, $17,986; Dunleavy & Lynch, $19,900; W. F. Hanrohan, $19,374; Williams & Beiser, $17,754; C. D. Vincent, $19,874; Stanley Construction Co., $18,475.

LOS ANGELES, CAL.—Council has passed an ordinance for bond issues amounting to $1,100,000. The bonds are for municipal improvements, including storm drains and sewers.

BOISE CITY, IDAHO.—Bids are asked until 8 p. m., April 5, by the City Clerk, for 24,000 ft. of sewer pipe and appurtenances. J. A. Beal, City Clk.

POTLACH, IDAHO.—See under Water Supply—Irrigation.

TORONTO, ONT.—Contracts for sewer work are reported to have been awarded by the Bd. of Control as follows: For sewers in the Woodbine District, to the TORONTO CONSTRUCTION & PAVING CO., of Toronto, for the sewers and pumping station for $39,422, and F. G. MORTIMER, of Chicago, Ill., for the septic tanks and bacteria beds for $13,000. The TORONTO CONSTRUCTION & PAVING CO. also secured the contract for the Roncesvalles Ave. sewer at $28,904.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

ROCHESTER, N. H.—Bids are asked until 5 p. m., April 2, by the State Highway Department, Concord, N. H., for construction of a macadam road 7,500 ft. long. A. W. Dean is State Engr.

HOLYOKE, MASS.—Bids are asked until 1.30 p. m., April 6, by the Board of Public Works, for furnishing 10,000 gallons or more of sidewalk composition. M. F. Walsh is Chn. (Advertised, Engineering News.)

NEWTON, MASS.—SIMPSON BROS., 166 Devonshire St., Boston, have been awarded the contract for furnishing sidewalks, etc., for the year 1906, at $13,535.

SEEKONK, MASS.—The voters of this town have decided to macadamize County St. at an estimated cost of $3,500.

PROVIDENCE, R. I.—Bids are asked until March 28 by the State Highway Department for the purchase of $900,000 state highway bonds.

BRIDGEPORT, CONN.—The Board of Apportionment has appropriated $13,000 for widening and paving East Washington Ave. William Starr is City Engr.

Bids are asked until March 22 for constructing a section of macadam road. W. H. R. Du Bois, Chn. Street Com.

ROCHESTER, N. Y.—The following contracts have been awarded for paving, at prices noted in issue of March 15: Gibbs St., BRAYER & ALBAUGH; Avenue A, H. N. COWLES; Sullivan St., H. N. COWLES; Milburn St. and Cleveland Pl., WHITMORE, RAUBER & VICINUS; Heltzer St., W. F. & G. W. LAUER; Baldwin St., walks, HENRY SCHOENFELT; Mayberry St., walks, JOHN J. REGAN; Spiegel St., walks and grading, JOHN CALNAN.

SCHENECTADY, N. Y.—The SCHENECTADY CONTRACTING CO. is stated to have received the contract for paving Duane Ave. and Furman St. with asphalt, at $1.41 per sq. yd.

AUBURN, N. Y.—Bids are asked until 8 p. m., April 3, by J. S. Hanlon, City Clk., for paving Owasco St. with asphalt. (Advertised, Engineering News.)

CORNING, N. Y.—We are officially advised that contract for paving several streets with brick has been awarded to the McGREEVY CONSTRUCTION CO., Ithaca, N. Y., at $34,975. Other bidders were: J. E. Rawlins, Elmira, N. Y., $35,343.30; A. D. Osborn, Binghamton, N. Y., $35,962.20; Thos. Fitzgerald, Jr., Fredonia, N. Y., $36,330.10; John Mahoney, Jamestown, N. Y., $37,051.10; Frank Foote, Nunda, N. Y., $38,162.50; Tibbits & Peckham, Oneida, N. Y., $39,763.70. R. H. Canfield is Supt. Pub. Wks.

NEW YORK, N. Y.—Bids are asked until April 5 by the Brooklyn Park Board for the construction of cement sidewalks on Prospect Park West. Moses Herrman is Pres.

Bids are asked until March 24 by Geo. Cromwell, Pres. Richmond Boro., for regulating and grading seven roads.

Bids are asked until March 27 by Geo. Cromwell, Pres. Richmond Boro., for repaving six streets with asphalt block.

BABYLON, (L. I.), N. Y.—Two propositions calling for an expenditure of $20,000 for Peekskill gravel roads will be placed before the voters of the village at the charter election on March 20.

BINGHAMTON, N. Y.—Bids are asked until 5 p. m., April 9, by the Common Council, for paving Chenango St. D. C. Herrick, City Clk. (Advertised, Engineering News.)

NEW YORK, N. Y.—We are officially informed that the ABBOT-GAMBLE CO., 32 Broadway, has been awarded the contract for paving the yards of the Long Island Ry. Co. at East New York.

NEW YORK, N. Y.—Bids are asked until 11 a. m., April 4, by Bird S. Coler, Pres. Brooklyn Borough, for constructing cement concrete sidewalks on various streets and for grading a number of lots.

ATLANTIC CITY, N. J.—Ordinance has been passed by the council for paving Pacific Ave. with asphalt at an estimated cost of $25,000. J. W. Hackney is City Engr.

HARRISBURG, PA.—We are informed that M. B. Cowden, City Engr., is preparing plans for paving, to cost $400,000.

DOYLESTOWN, PA.—Contracts for building six miles of stone roads in Bristol Township have been awarded to J. R. SHANLEY and E. G. SCHWENDEMAN, at about $7,200 per mile.

BRADFORD, PA.—It is said that Congress St. will be paved with brick at an estimated cost of $20,000. A. F. Bannon is City Engr.

ALTOONA, PA.—We are officially informed that more than seven miles of paving brick on 6-in. concrete foundation, will probably be done this year. Harvey Linton is City Engr.

PHILADELPHIA, PA.—The sum of $75,531 is reported to have been appropriated by the Commissioners of Fairmount Park to complete the Speedway. An appropriation of $5,000 was also made for the construction of asphalt walks in various parts of the Park; also $11,000 for asphalt walks, grading and sodding in the vicinity of Strawberry Mansion, and $20,000 for improving that section of the Park between Girard Ave. and the tracks of the Reading Railway east of Girard Ave. bridge.

PITTSBURG, PA.—According to the Pittsburg "Leader" plans have been prepared for a proposed main state road between this city and Philadelphia. Cost is to be $2,500,000, three-fourths to be furnished by the state and the remainder by the counties through which the road will run.

WILMINGTON, DEL.—Stewart & Donahue were the only bidders for macadamizing the Causeway Road. Their bid was $9,500. F. A. Price is Highway Comr.

CUMBERLAND, MD.—Bids are asked until noon, March 28, by the Street and Alley Committee for grading and paving Maryland Ave. Chas. R. Eyler is Chn.

FRANKLIN, VA.—Bids are asked until 2.30 p. m., March 26, by W. T. Pace, Recorder, for laying 4,000 to 7,000 sq. yds. of granolithic sidewalks.

KEYSER, W. VA.—We are informed that bids for paving and grading, to cost $11,000, will be asked about April 20. R. A. Welch is Mayor.

COLUMBUS, GA.—Bids are asked until April 2 by the Street Committee of the Council for about 60,000 sq. yds. of pavement. W. C. Campbell is Supt. Pub. Wks.

BIRMINGHAM, ALA.—The Street and Light Committee is stated to have recommended the issuing of $42,000 bonds to provide for the paving of portions of 19th and 20th Sts., and Third Ave.

PORT GIBSON, MISS.—Bids are asked until April 2 by the Board of Supervisors for working about 110 miles of dirt road for a term of 2 years. Jos. A. Craig is Pres.

HATTIESBURG MISS.—It is reported that $200,000 of improvement bonds have been sold and work will begin at once on paving the entire business section of the city. R. C. Huston is City Engr.

OPELOUSAS, LA.—Bids are asked until noon, April 10, by R. A. Littell, Mayor, for about 14,000 ft. of cement walks.

ATHENS TENN.—The county has voted to issue $200,000 in bonds for building a system of county roads. Address the County Clerk for information.

NASHVILLE, TENN.—Plans have been prepared for improving and grading several streets. W. W. Southgate is City Engr.

SPARTA, TENN.—It is said that bonds for $20,000 have been voted for the construction of 50 miles of roads in White county.

YOUNGSTOWN, O.—It has been decided by the city council to pave Wickpark Boulevard, at a cost of $54,000. F. M. Lillie is City Engr.

FINDLAY, O.—Bids are asked until 1.30 p. m., April 2, by the trustees of Coss Township for building stone road. Eli W. Pepple is Township Clk.

CLEVELAND, O.—It is reported that bids were received on March 7 by the Board of Public Service for paving with 12-in. macadam, limestone and trap rock on the following streets: (a) Magnolia Drive; (b) 10th St.; (c) Mistletoe Drive; (d) Hazel Drive (bidders all of Cleveland): Baldwin Bros. & Graham, (a) $29,907, (b) $9,107, (c) $3,758, (d) $5,584; Spence Bros., (a) $24,828, (b) $9,043, (c) $3,728, (d) $5,541; Northern Ohio Paving & Constr. Co., (a) $29,434, (b) $10,672, (c) $4,375, (d) $6,570; Geo. B. Herring & Son (a) $33,452, (b) $12,176, (c) $5,010, (d) $7,492.

CLEVELAND, O.—The County Commissioners are stated to have awarded the contract for grading eight miles of state roads in Parma and Royalton Townships to the ENTERPRISE PAVING CO., of Cleveland, at $42,000.

LEBANON, O.—Bids are asked until April 6 by R. B. Corwin, Village Clk., for about 30,000 sq. ft. of cement sidewalks.

CYGNET, O.—The township trustees have let a contract to the D. R. McARTHUR STONE CO., of Kenton, to build a mile of road at 94 cts. per cu. yd.

SHERIDAN, IND.—Ordinances have been passed for paving and constructing sidewalks on Main St., at an estimated cost of $35,000.

NEW ALBANY, IND.—The MARION CONSTRUCTION CO., of Marion, Ind., has been awarded the contract for paving several streets here at $60,000.

FT. WAYNE, IND.—The BARBER ASPHALT CO. has been awarded the contract for paving Wallave St. with asphalt.

TERRE HAUTE, IND.—It is proposed to pave with brick North Eighth St., from Hulman St. to Maple Ave., 50,000 sq. yds. on concrete base, sand cushion and cement filler. Edgar Schmidt is City Engr.

BEDFORD, IND.—We are informed by G. C. Houston, City Engr., that about 14,000 sq. yds. of brick or bitulithic pavements will be constructed this spring.

BROOKVILLE, IND.—Bids are asked until 1 p. m., April 2, by the Commissioners of Franklin County, for three miles of stone roads.

GREENSBURG, IND.—Bids are asked until April 2, 1906, by the Commissioners of Decatur County, for the construction of 1,430 ft. of macadam road in Washington Township.

PAOLI, IND.—Bids are asked until 2 p. m., April 4, by the Commissioners of Orange County, for the construction of gravel roads in French Lick and Orleans Townships.

VALPARAISO, IND.—Bids are asked until noon, April 2, by the Commissioners of Porter County, for three miles of gravel roads. S. P. Corboy, Audr.

GRAND RAPIDS, MICH.—Bids are asked until 5 p. m., March 26, by R. V. McArthur, Village Pres., East Grand Rapids, for grading and graveling roads. G. H. Miller, Clk.

BENTON HARBOR, MICH.—It is reported that plans have been prepared for building about ten miles of macadam roads at an estimated cost of $30,000.

KALAMAZOO, MICH.—It is reported that Roy Williams and Hatch & Son were the lowest bidders for paving several streets here. M. C. Taft is City Engr.

STERLING, ILL.—The following contracts have been let by the Board of Local Improvements: For paving Locust St., ROURKE & RIDGE, at $9,959; West Third St., A. E. RUTLEDGE & CO., at $11,863; East Third St., CONCRETE CONSTRUCTION CO., Rock Island, $13,337.

LA CROSSE, WIS.—Bids are asked until April 17 by the Board of Public Works for paving Jackson St. Estimated cost, $25,000.

GREEN BAY, WIS.—Time for receiving bids for work noted in issues of March 8 and 15 has been changed from April 2d to April 14th. W. W. Reed, City Engr. (Advertised, Engineering News.)

SHEBOYGAN, WIS.—Contract has been awarded to M. H. McGOVERN, Chamber of Commerce Bldg., Chicago, for paving 8th St. with brick at $44,208. Other bidders were: John O. Jones, Racine, Wis., $50,506; R. J. Hickey, Milwaukee, Wis., $52,770; Dunn J. Keith, Marshalltown, Ia., $56,866; Badger Construction Co., Milwaukee, Wis., $52,068; John Braun, Sheboygan, Wis., $55,619; Columbia Const. Co., Chicago, Ill., $52,143. Prices do not include paving in street railway tracks. C. M. Boley is City Engr.

SUPERIOR, WIS.—Bids are asked until March 31 by J. A. Hobe, City Clk., for paving Winter and Eleventh Sts. Estimated cost is $40,000. S. M. White is City Engr.

STEVENS POINT, WIS.—Bids are asked until April 7 by the Board of Public Works for furnishing material and improving South Third and Water Sts. L. J. N. Murat is Chn.

DAVENPORT, IA.—The following bids have been received for paving Scott, Brady, 7th, Ripley, 18th and High St. with asphalt: Barber Asphalt Co., Des Moines, $1.68 per sq. yd. for the paving; 48 cts. per lin. ft. for curb and 30 cts. per cu. yd. for excav.; total cost, $58,417; the McCarty Improv. Co., of Davenport, bid for paving Division St. with asphalt at $1.70 per sq. yd. and Gaines St., $1.53 per sq. yd., bidding for curb 50 cts. per lin. ft.; total cost, $24,086; The Concrete Construction Co., of Rock Island, Ill., bid for paving Second Ave. and Rock Island St. with brick, $1.48 per sq. yd., bidding for curb 55 cts. and 46 cts. per lin. ft., excav. 28 cts. per cu. yd.; total cost, $10,347. Thos. Murray, City Engr.

FORT MADISON, IA.—Bids are asked until 7 p. m., March 23, for curbing, macadamizing and grading several streets. Joseph Friedel is Chn. Paving Com.

MINNEAPOLIS, MINN.—Contract has been awarded to the BARBER ASPHALT CO. for 114,000 sq. yds. of paving at $1.50 per sq. yd. Andrew Rinker is City Engr.

ST. PAUL, MINN.—Bids for macadamizing roads have been received. The lowest were: Como Road, General Construction Co., $8,595; Point Douglas Road, Ryan & Johnson, $10,286.

ST. PAUL, MINN.—Bids are asked until 10 a. m., April 2, by the Commissioners of Ramsey County, for macadamizing N. St. Paul Road. E. G. Krahmer is County Audr.

The Commissioners of Ramsey County have let the contract for macadamizing the New Brighton Road to WILLIAM DEVINE, at $29,452.

CROOKSTON, MINN.—The Barber Asphalt Co. was low bidder for paving Houston St. with asphalt at 12 cts. per cu. yd. for excavation, $2.30 per sq. yd. for paving, and 60 cts. per lin. ft. for curb. J. E. Carroll is City Engr. Noted in issue of Feb. 8.

WICHITA, KAN.—It is said that the city plans to improve Topeka Ave. at an estimated cost of $7,145. A. Brown is City Engr.

ATCHISON, KAN.—Four miles of macadam roads and several steel bridges will be built by this county, according to L. S. Hereford, Road Comr.

LAWRENCE, KAN.—Bids are asked until 5 p. m., April 2, by F. D. Brooks, City Clk., for grading, curbing and macadamizing several streets.

TOPEKA, KAN.—Brick paving to cost $95,000 is planned by this city and bids will probably be asked in a few days.

BISMARK, N. DAK.—Bids are asked until 11 a. m., April 16, by R. H. Leavitt, Q. M., for constructing cement sidewalks at Fort Lincoln.

KANSAS CITY, MO.—Contracts for about 30,000 yds. of paving have been awarded as follows: PARKER WASHINGTON CO., 2309 Penn Ave., portions of Cherry St., $1.71; Charlotte, St., $1.78; 34th St., $1.70; Kensington St., $1.85; Campbell St., $1.65; Forest St., $1.65; CLEVELAND TRINIDAD PAVING CO., Rose Bldg., portions of Oak St., $1.69; Roberts St., $1.90; Wabash St., $1.77; Montgall St., $1.78, and 36th St., $1.76. Prices given are per sq. yd.

ST. JOSEPH, MO.—It is reported that A. J. DILLINGHAM has been awarded the contract for paving Penn St. at $1.18 per sq. yd.

ST. JOSEPH, MO.—It is said that a movement is on foot to grade many streets and alleys in this city. W. H. Floyd, Jr., is City Engr.

PARIS, TEX.—Bids are asked until 4 p. m., April 19, by the City Secretary, for about 3,200 sq. yds. of vitrified brick paving. T. C. Bishop is Mayor. (Advertised, Engineering News.)

EL PASO, TEX.—Specifications and blank proposals for paving, as noted in issue of March 8, are on file at office of Engineering News, New York.

SEATTLE, WASH.—Contract has been awarded to the BARBER ASPHALT CO., Seattle, for paving 10th Ave., at $91,399. Bid of the Independent Asphalt Co. was $92,045. WAGNER & HARVEY received contract for concrete sidewalks at $7,992, and McADAM & CANNON for similar work, at $3,347. R. H. Thompson is City Engr.

SPOKANE, WASH.—Contract for recurbing, resurfacing and sidewalking a portion of 3d is reported to have been awarded to PETER COSTELLO, 118 Mission Ave., for $6,900. H. L. LILLIENTHAL was awarded the contract for grading, curbing a portion of McClellan and park, also the contract for grading for $5,620, parking 12th Ave., at $4,5[illegible] curbing and

The low bid for improving Mallon Ave was that of the Barber A[illegible]t Co., at $5,640.

TACOMA, WASH.—The [illegible] streets have been ordered paved: [illegible] phalt on sandstone base, 30 [illegible] with asSixth Ave., with same mat[illegible] sq. yds. yds., and alley between D a[illegible] Sts., with brick, 8,000 sq. yds. The [illegible]ed cost of the work is $80,000. Frank [illegible]vis is City Engr.

NEVADA CITY, CAL.—It [illegible]roposed to macadamize the road from th[illegible] to Washington at an estimated cost [illegible],000. F. L. Arvogast is County Clk.

OAKLAND, CAL.—The Bo[illegible] of Public Works has authorized an exp[illegible]re of $15,000 extending the east side[illegible]ward on Lake Merritt.

SAN FRANCISCO, CAL.—J. P. Woodward, City Engr., writes that [illegible],000 will be spent for paving various stre[illegible] the near future.

RIVERSIDE, CAL.—Major [illegible]rden, of the U. S. Engineer Corps, i[illegible]ere for the purpose of laying out Huntington Park, a scenic drive up Rubidoux m[illegible]. It is said that $25,000 will be expe[illegible] and work will begin at once.

LOS ANGELES, CAL.—The M[illegible]arthy Co. has let a contract for $25,000 [illegible]. H. McCRAY for streetwork in its Greater Los Angeles tract.

PASADENA, CAL.—The [illegible] has awarded contract for the grading of Joe St. to H. C. CUSHING, at 44 cts. per cu. yd., for grading, 26 cts. per lin. ft. for curb and 10 cts. per ft. for sidewalk. Alex. Hinckley is City Clk.

REDONDO, CAL.—The Board of Trustees have awarded contract for the grading, graveling, curbing, guttering and sidewalking of Dominguez Ave. to L. B. HAYES and A. B. JACKSON, at $1.79 per sq. yd. for grading, graveling and oiling, 32 cts. per lin. ft. for curb, 13 cts. per ft. for gutter, and 11½ cts. per ft. for sidewalk. A. M. Harter is Clk.

SAN FRANCISCO, CAL.—Bids are asked until 3 p. m., April 9, by the Board of Public Works for reconstruction of the Geary St. road. Thos. P. Woodward is City Engr.

WINNIPEG, MAN.—Bids are asked until 3.30 p. m., March 27, by J. G. Latimer, Chn. Com. on Wks., for from 1,000 to 3,000 tons of asphalt, and not 300 tons as noted in issue of March 8. C. J. Brown is City Clk. (Advertised, Engineering News.)

TORONTO, ONT.—It is reported that the following contracts have been awarded by the Board of Control: BARBER ASPHALT PAVING CO., with asphalt, Broadview Ave., $16,048, Birtle Ave., $2,723, and Alexander St., $4,675; GODSON CONTRACTING CO., with macadam, Farley Ave., $8,889. For concrete sidewalks: R. A. ROGERS, Church St., 84 cts., and Munro St., $1.04; GODSON CONTRACTING CO., Alexander St., 73 cts.; GRANT CONSTRUCTION CO., Surrey Pl., $1.14, St. Lawrence St., $1.07, and Robinson St., 72½ cts.; CONTRACTING & PAVING CO., Beatrice St., 75 cts., and Nelson St., $1.10; W. R. PAYNE, Brock Ave., 70 cts., and Teraulay St., 87 cts.; CRESCENT CONCRETE PAVING CO., Albany Ave., 75 cts., Close Ave., 70 cts., Peter St., $1.14; QUEEN CITY PAVING CO., Logan Ave., 63 cts.; Yonge St., $1.90; Breadalbane St., $1.07; Paul St., 90 cts.; R. GARDNER & CO., King St., $1.40 and 87 cts., and Osgoode St., 84 cts. Prices are per sq. yd. C. H. Rust is City Engr.

BRANDON, MAN.—Bids are asked until April 12 for from 5,000 to 7,000 bbls. of cement. W. H. Shillinglaw is City Engr.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

LUDLOW, VT.—The Black River Woolen Co. will erect an addition to its present plant here. Building will be two stories, 120 x 66 ft.

READVILLE, MASS.—The New York, New Haven & Hartford R. R. Co. will build a new machine, erecting and boiler shop, 150 x 900 ft., brick and steel, and a blacksmith shop, 80 × 354 ft. G. B. Mitchell is Sup. Bldgs., at New Haven, Conn.

PROVIDENCE, R. I.—The Rumford Chemical Works Corporation will build a 5-story brick addition, 40 × 75 ft., to its present building.

ELMIRA, N. Y.—The Kennedy Valve Mfg. Co., 57 Beekman St., New York, is preparing plans for a new plant at this place. Buildings will contain about 100,000 sq. ft., brick and steel, electrically operated and will consist of iron and brass foundries, machine shops, etc. T. C. Flinn, c/o Chamber of Commerce, Elmira, may be addressed.

PHILADELPHIA, PA.—Milligan & Webber, Archs., 520 Walnut St., have prepared plans for a manufacturing plant in this city. Building will be of reinforced concrete, 10-story, 100 × 220 ft., and cost $450,000.

SCRANTON, PA.—It is reported that the Delaware, Lackawanna & Western Co., coal department, has completed plans for the erection of several buildings to be used exclusively in the manufacture and repair of anthracite mining machinery. There will be four buildings for immediate construction, and on which bids will be invited shortly, the total cost being $100,000. The buildings include a machine shop, 75 × 150 ft.; a carpenter shop, 50 × 200 ft.; a blacksmith shop, 32 × 48 ft., and a large storage building.

NEWARK, DEL.—J. P. Wright has invited bids for a factory to be erected here for the manufacture of fiber. Concrete, 1-story, costing $40,000.

BRISTOL, PA.—C. J. Brooke, Arch., 14 South Broad St., Philadelphia, has invited bids for a factory at this place for the Bristol Patent Leather Co. Brick, 2-story, requiring power equipment and special machinery.

PHILADELPHIA, PA.—We are officially advised that McCARTY & WITMAN, 345 York Ave., Philadelphia, have been awarded the contract for a factory building for E. Wheeler Jenkins. Building will be three stories, 61 × 73 ft., brick, of slow burning construction. Savery, Scheetz & Savery, Stephen Girard Bldg., are Archs.

BALTIMORE, MD.—J. HENRY MILLER, Baltimore, has received a contract from the S. H. Tinley Co. for the construction of a lumber mill. The main building is to be two stories high, 276 × 478 ft., and of mill construction. The dry kiln will be three stories high, 68 × 240 ft.

The contract for the construction of a 1-story brick foundry and a 4-story warehouse for the S. H. Tinley Co., on Conway St., has been awarded to J. HENRY MILLER. The foundry will be 53 × 50 ft.; the warehouse 40 × 50 ft.

BALTIMORE, MD.—Louis Levi, Arch., American Bldg., is preparing plans for a 2-story brick factory building for Hamburger Bros. & Co.

Charles M. Stieff, 9 North Liberty St., has awarded a contract to McLAUGHLIN BROS., of this city, for the erection of an addition to his present piano factory, at about $62,000, exclusive of machinery. Building will be 5-story, 50 × 220 ft., mill construction.

WASHINGTON, D. C.—The Home Ice Co., Twelfth and V Sts. N. W., has awarded a contract to ARTHUR COWSILL, Fourteenth and G Sts. N. W., for construction of 2-story ice factory, 70 × 90 ft., and general repair of boiler room, 24 × 76 ft. Frank H. Jackson is Arch., 1419 G St. N. W.

RICHMOND, VA.—The Sitterding-Carneal-Davis Co. will expend $50,000 to build and equip a factory for the manufacture of wire screens. F. Sitterding is Pres.

NORFOLK, VA.—It is reported that the Norfolk & Western Railway Co. is completing arrangements for making improvements to shops, building an extension to boiler shop, enlarging paint shop, erecting paint stock house and foundry building, 40 × 740 ft. Estimated cost, $365,000. C. S. Churchill, Roanoke, Va., is Ch. Engr.

WINCHESTER, VA.—It is reported that the Woodstock Knitting Co., will take over the hosiery plant of the Lewis Jones Knitting Co., and will build a new mill 75 × 30 ft., three stories of brick. Joseph W. Leafe is Secy.

GREENVILLE, S. C.—We are officially advised that the improvements to the plant of the McGee Mfg. Co. will consist of the erection of a 2-story brick and wood building, 150 × 120 ft., of slow burning construction. Machinery, shafting and electric lighting system will be purchased about May 1. Estimated cost of building, $18,000; equipment, $25,000. Lockwood, Greene & Co., 93 Federal St., Boston, Mass., are Engrs. Noted on March 8.

BESSEMER, ALA.—According to reports, the Rankin-Tuck Paint Co., of Birmingham, Ala., will establish a paint factory near Besemer costing $150,000.

ARLINGTON, KY.—Arlington Roller Mills, Flegle Bros., proprietors, will rebuild plant burned recently. A mill building 30 × 40 ft. with equipment for a daily capacity of 100 bbls., and an elevator will be erected. Charles Patrick is Engr.-in-Charge and Wm. Ebert is Arch. About $20,000 will be expended, according to reports.

CLEVELAND, O.—Richardson & Watts, Archs., 314 Bangor Blk., are taking bids for a 5-story factory building, 40 × 200 ft., for the Cleveland Twist Drill Co. Brick and steel, mill construction.

MARION, IND.—The American Drill Co. will establish a plant at this place and remove its factory from Springfield, O.

SOUTH BEND, IND.—It is reported that the Oliver Chilled Plow Works will build a 5-story reinforced concrete warehouse, 100 × 250 ft. J. D. Oliver is Treas.

HUNTINGTON, IND.—The National Food Products Co. will build a factory in this city. The company is capitalized at $200,000.

INDIANAPOLIS, IND.—The Boulevard Cement Block Co. has been incorporated and will establish a factory to manufacture cement building materials. Oliver H. Mann is Pres.; E. S. Huggins, Secy.

TROY, IND.—The Troy Model Brewing Co. has been incorporated and will establish a brewery. Capital stock, $40,000. Jacob Kunkler is Pres.

PRINCETON, IND.—Plans have been drawn and accepted for a plant for the Princeton Corrugated Sewer Pipe Works in this city.

KALAMAZOO, MICH.—The Kalamazoo Laundry Co. has awarded a contract to F. O. BARKER for the construction of a laundry plant at about $40,000.

EAST ST. LOUIS, ILL.—The Venice Transportation Co. has purchased a site near here and will erect a plant for the manufacture of cars of all kinds.

DECATUR, ILL.—Plans are completed for 15 buildings to be erected here by the Wabash R. R. for repair shops, etc. A. O. Cunningham, St. Louis, is Ch. Engr.

CHICAGO, ILL.—L. G. Hallberg, Arch., 84 La Salle St., is taking figures on a factory building, to be erected for E. Dietzgen & Co. Four stories, 60 × 125 ft., built of brick and stone, costing $100,000.

CHICAGO, ILL.—It is reported that L. G. Hallberg, Arch., 84 La Salle St., has awarded the masonry contract to J. W. JOHNSON & CO., 188 East Madison St., and contract for fireproofing and concrete work to SIMPSON CONSTRUCTION CO., 704 Chamber of Commerce Bldg., for a manufacturing building to be built for the Fett & Tarrant Mfg. Co. It will be 4-sty, 50 × 200 ft., of concrete construction, brick and stone front, and cost $75,000.

The Griffin Wheel Co. has purchased a site in Pullman and has in view the construction of twelve buildings to cost $200,000. The buildings include a shop, 28 × 82 ft., office and store, 28 × 111 ft., foundry, 202 × 90 ft., machine shop, 50 × 50 ft., cleaning room, 152 × 60 ft., power house, 54 × 90 ft.

PORT EDWARDS, WIS.—The Port Edwards Sulphite Co. will erect a large sulphite and ground wood plant at Port Edwards to supply paper mills in the Fox River valley. John McNaughton, Appleton, Wis., is Secy.

MINNEAPOLIS, MINN.—The B. F. H. Electrical Mfg. Co., of this city, has been incorporated with capital of $1,000,000 to manufacture dynamos and other electrical machinery. The incorporators are Frank S. Bryant, A. W. Swanberg and C. M. Hofstad.

OMAHA, NEB.—A. Booth & Co., of this city, will construct an addition to their cold storage plant here and double present capacity. Brick, 3-story, 77 × 132 ft., costing $75,000.

ST. LOUIS, MO.—The American Car & Foundry Co. will erect a plant here for the manufacture of steel cars, the cost of buildings, site and equipment being about $1,000,000. Plans and specifications have been prepared which call for the construction of a main building of steel, 800 × 180 ft., as well as several smaller buildings. The main offices of the company are in the Lincoln Trust Bldg., St. Louis.

HOT SPRINGS, ARK.—The Interstate Clay Products Co. will have plans prepared for a pottery and brick manufacturing plant to be erected here, to cost about $125,000.

ALVA, OKLA.—The Oklahoma Plaster Co. has been organized and will construct a plant, costing about $100,000, for the manufacture of all varieties of gypsum products. C. M. Poorman is Pres.

PUEBLO, COLO.—G. W. Roe, Arch., has prepared plans and will ask for bids about April 15 for a 3-story cold storage plant, 150 × 300 ft. $250,000 estimated cost.

SEATTLE, WASH.—It is reported that the Broderick & Bascom Rope Co., of St. Louis, Mo., will erect a plant here for the manufacture of wire rope.

EVERETT, WASH.—J. E. Chilberg, Pres. Washington Turpentine Co., Seattle, has stated that the company will let contracts soon for the construction of its plant at this place. Main building will be 3-story, 35 × 95 ft.

SPOKANE, WASH.—Weston & Grayan will establish a plant here for the manufacture of cutlery and tools.

MONCTON, N. B.—The Intercolonial Railway will rebuild the car works, recently burned, at this place. Estimated cost, about $1,500,000. D Pottinger is Gen. Mgr. at this place.

WINNIPEG, MAN.—It is reported that the Empire Wall Paper Co., of Toronto, will erect a large factory here for the manufacture of wall paper. Herbert C. Jarvis is Pres.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

DITCH.—Valparaiso, Ind.—LUCE & GIDLEY, of Hebron, have been awarded the contract for constructing the Cornell ditch at 6.24 cts. per yd.

CANAL.—Gunnison, Utah.—Bids are asked by the Gunnison-Highland Canal Co. until April 1 for the construction of two miles of canal. L. Ludvigson, Secy.

JETTIES.—Cleveland, O.—Bids are asked until 2 p. m., April 7, for constructing jetties at Huron harbor, Ohio. Lt. Col. Dan C. Kingman, Corps Engrs.

SEAWALL.—San Francisco, Cal.—Bids are asked until April 5 for the construction of section 12 of the seawall. Lott D. Norton, Ch. Engr. John M. Foy, Secy. Bd. State Harbor Comrs.

READERS' WANTS FOR THOSE IN THE MARKET

The readers of ENGINEERING NEWS are constantly in the market for great quantities of machinery, tools and general supplies. While our thousand advertisers are usually able to furnish the material desired, yet there are many things wanted by our readers that are not advertised, although connected with engineering and contracting directly or indirectly. This department (R-W) is for this class of inquiries, and we urge our readers to keep us informed. Enclose five cents in stamps and we write to a number of leading manufacturers without further cost. When writing to our advertisers, who are the leaders in their respective lines, mention Engineering News. Have you a copy of our Buyers' Guide? Engineering News Can Help Buyers.

TRANSIT.—Waynesville, N. C.—J. W. Seaver, Jr., writes us that he desires to purchase a transit.

SECOND-HAND TRACKS.—Roslyn, N. Y.—We are informed that the Nassau Concrete Works are in the market for small size, second-hand railroad tracks.

BORING MACHINES.—New York, N. Y.—T. W. Shotwell, 263 Broadway, writes us that he wishes to correspond with firms manufacturing boring machines.

ERECTING STEEL WORK.—Louisville, Ky.—J. A. Holmboe, Vice-Pres. Snead Architectural Iron Works, informs us that he desires names of firms making a specialty of erecting steel work.

ORNAMENTAL LETTER BOX.—Knoxville, Tenn.—The Oliver Co., concrete engineers and contractors, desires data from firms making ornamental letter boxes. W. H. Burk is Ch. Engr.

MALLEABLE CASTINGS, ETC.—Cripple Creek, Colo.—Hiram S. Rankin, 344 South Second St., writes us that he wishes to correspond with firms manufacturing malleable castings and small steam fittings.

HYDRAULIC LABORATORY APPARATUS.—Salt Lake City, Utah.—Richard R. Lyman, Professor of Civil Engineering, University of Utah, is placing orders for the modern hydraulic apparatus for the new laboratory, now nearing completion. He desires all correspondence possible from firms making such apparatus.

CEMENT AND SAND BRICK MACHINES.—Reading, Pa.—We are in receipt of a letter from Charles F. Sanders, C. E., in which he states that he wishes the names of manufacturers of cement and sand-brick machinery.

DERRICK AND HOISTING ENGINES.—Cleveland, O.—W. V. Metcalf, contractor and submarine diver, informs us that he is in the market for a second-hand wood or steel stiff-leg derrick, to lift about 20 tons, and a 3-drum hoisting engine without boiler.

WATER FILTERS.—Crown Point, Ind.—F. L. Knight & Sons, engineers, desire correspondence with manufacturers of water-filtering appliances for municipal and domestic use. They desire further information on air-lift pumping appliances and sewage purification plants.

MACHINERY, ETC.—Buffalo, N. Y.—We are informed that the Essex Construction Co., 504 Prudential Bldg., is in the market for boilers, buckets (dumping), caissons, cars (dump), concrete mixers, derricks, ditching machines, hoisting engines, jacks, locomotives, pumps, rock crushers, road rollers, steam shovels, etc.

MANHOLE CASTINGS, SEWER GRATES, ETC.—McKeesport, Pa.—The Pennsylvania Construction Co. writes us that it is desirous of communicating with responsible firms manufacturing manhole castings, sewer grates and castings of all kinds entering into the construction of sewerage and water supply systems and lines.

DREDGING.—Midland, Ont.—Bids are asked until March 23 by Fred Gelinas, Secy. Dept. Pub. Works, Ottawa, for dredging in the harbor of Midland, Ont.

DREDGING.—Boston, Mass.—Bids are asked until noon, April 16, for dredging in Merrimac River, Mass. Col. W. S. Stanton, Engrs. (Advertised, Engineering News.)

DREDGING.—Rock Island, Ill.—FRANK B. STEVENS, of Geneseo, is reported to have secured the contract for dredging and leveling Copperas Creek, 114,000 cu. yds., at 11 cts. per cu. yd.

COAL HANDLING PLANT.—Chicago, Ill.—Bids are asked until 11 a. m., April 6, for the installation of a coal handling plant at the 39th St. pumping station. William L. O'Connell, Acting Comr. Pub. Works.

RETAINING WALL.—Indianapolis, Ind.—Bids are asked by the Commissioners of Marion County until 10 a. m., March 30, for the construction of a retaining wall on gravel road in Washington Township.

SUBWAY.—San Francisco, Cal.—The contract for the 18 × 30 ft. reinforced concrete subway, through which the Ocean Shore Railway intends to enter San Francisco, has been let to RICHARD KEATINGE & SONS, of San Francisco.

DAM.—Carlsbad, N. Mex.—Plans, specifications and bidding sheet for building a dam in the Pecos River are on file at office of Engineering News, New York. Bids are asked until April 12, as advertised in Engineering News.

DITCH.—Clarion, Ia.—Bids are asked until April 3 by E. M. Callender, County Audr., for constructing drains and ditches known as the Ole Thompson Ditch, or ditch No. 10, to be about 51,500 ft. long, requiring 252,650 cu. yds. excavation.

DITCHES.—Cleveland, O.—According to official information, S. H. Smith and I. N. Babcock, Delta, O., were lowest bidders for constructing the Dover ditches, involving the excavation of 33,260 cu. yds., at $6,486. W. H. Evers is County Engr.

GANTRY CRANE.—Washington, D. C.—Bids are asked until 10 a. m., April 3, for furnishing one locomotive gantry crane at the navy yard, this city, for the naval proving ground, Indian Head, Md. H. T. B. Harris, Paymaster Genl. U. S. N.

LOCK.—Rock Island, Ill.—We are officially advised that the Dravo Construction Co., Pittsburg, Pa., submitted the only bid for constructing a lock in the Mississippi River near Moline, at $167,817. Bids were opened March 12 by Major C. S. Riche, Corps Engrs.

STEEL BARS.—Glendive, Mont.—John B. Kendall, 485 Missouri Ave., Washington, D. C., was lowest bidder for furnishing about 427,000 lbs. of steel bars for the reinforcement of concrete in connection with the Lower Yellowstone Project, at $6,833 f. o. b. Pittsburg.

MAIN CANAL.—Glendive, Mont.—Plans and specifications and bidding sheet for construction of structures on last 33 miles of main canal and laterals, Lower Yellowstone Project, are on file at office of Engineering News, New York. Bids are asked until April 12, as advertised in Engineering News.

DRAINS.—Spirit Lake, Ia.—Bids are asked until April 3 for digging trenches, lay tile and cover tile in Drainage Dist. No. 4, Dickinson County, public drain No. 14, Emmet County, requiring 7,735 ft. 12-in. and 1,380 ft. 8-in. tile. C. C. Hamilton, of Spirit Lake, is Audr. Dickinson County.

DREDGING.—Grand Rapids, Mich.—The GREAT LAKES DREDGE & DOCK CO., Chicago, has been awarded the contract to dredge the harbors on the east shore of Lake Michigan at 17 cts. per cu. yd. and to make a cut from the Saugatuck channel to Lake Michigan at 16 9-10 cts. per cu. yd. Noted on March 1.

WHARF.—Charleston, S. C.—Bids are asked until 11 a. m., April 14, by the Bureau of Yards and Docks, Washington, for the construction of a pile and timber wharf at the navy yard here. Specifications for this work are on file at office of Engineering News, 220 Broadway, New York. Mordecai T. Endicott, Chief of Bureau.

POWDER TANKS.—Washington, D. C.—The following bids were received on March 13 for furnishing 6 and 8-in powder tanks for the U. S. Navy: J. B. Chapman & Co., Springfield, Mass., $17,950 (one item only); Peter Gray & Sons, 90 Union St., Boston, Mass., $61,960; George C. Thomas, 26 Cortlandt St., New York, $59,500. Noted on Feb. 8.

DREDGING.—Boston, Mass.—Bids were received March 15, at Harbor and Land Commission State House, Boston, for dredging a canal in Annisquam River, including about 195 ft. of seawall and riprap at its southerly end, as follows: Eastern Dredging Co., Boston, $44,546; BAY STATE DREDGING CO., 19 High St., Boston, $40,046 (awarded contract).

CANAL.—Glendive, Mont.—Specifications and bidding sheet are on file at office of Engineering News, New York, for the construction of about 2½ miles of canal near Glendive, Mont., involving the excavation of approximately 2,662,900 cu. yds. of earth and 1,200 cu. yds. of rock, and for furnishing material. Bids are asked until April 12, as advertised in Engineering News.

MAIN CANAL.—Boise, Idaho.—Specifications, plans, and bidding sheet are on file at office of Engineering News, New York, for the construction of about 20 miles of main canal, involving the excavation of about 925,000 cu. yds. earth and 10,000 cu. yds. solid rock in connection with the Payette-Boise Project, Idaho. Bids are asked until April 16, as advertised in Engineering News.

BULKHEADS, ETC.—Baltimore, Md.—We are officially advised that the contract for constructing stone and timber bulkheads in the Back Basin has been awarded to BENJAMIN GLENN, of this city, at about $6,000 and the contract for dredging to the MARYLAND DREDGING & CONTRACTING CO., Fidelity Bldg., Baltimore, at about $48,000. Noted on March 8. M. H. Hutton is Harbor Engr.

DREDGING.—Boston, Mass.—The Bay State Dredging Co., 19 High St., Boston, was lowest bidder, at $40,046, for dredging a channel about 7,800 ft. long, 50 ft. wide, and 6 ft. deep at mean low water in Annisquam River, between Gloucester Harbor and Wolf Hill, with about 195 ft. of sea-wall and riprap at its southerly end. Woodward Emery, George E. Smith and Henry J. Skeffington are Harbor and Land Comrs.

DRAIN.—Boone, Ia.—Bids are asked until April 3 by Archie Patterson, County Audr., for constructing Drain No. 16, to consist of 13,600 ft. 6, 8, 10, 12, 16, 20, 24, and 28-in. tile. All bids for tile must show price per 1,000 ft. f. o. b. at Ogden; also bid for delivering tile from car at Ogden to the location of drain; also same date for constructing Ditch No. 17, to consist of 9,050 ft. 15, 16, 18, 20, 22 and 24-in. tile. All bids for tile must show price per 1,000 ft. f. o. b. at Luther; also bids for delivering tile from car at Luther to the location of drain. Bids will be received for both cement and clay tile.

DITCHES, ETC.—Northwood, Ia.—Bids are asked until April 6 by the Joint Board of Supervisors, at Northwood, for constructing open ditches and tile drains and two dikes in Drainage Dist. No. 2, Winnebago County, and Drainage Dist. No. 3, Worth County, consisting of 122,800 lin. ft. ditch, requiring 361,200 cu. yds. excavation, 3,800 ft. 15-in., 7,900 ft. 12-in., 3,500 ft. 10-in., and 2,800 ft. 8-in. tile, and two dikes, one 1,440 ft. and the other 740 ft. long. Iver Iverson, Jr., Audr. Worth County. Bids will be also received until April 6 by the Board Supervisors of Worth County, at Northwood, for constructing a ditch in Drainage Dist. No. 2, Hartland Township, consisting of 44,166 lin. ft. open ditch, requiring 172,541 cu. yds. excavation.

CONTRACT PRICES.

The names of parties awarded contracts are printed in capital letters.

*BRIDGES.—Philadelphia, Pa.—We are officially informed that bids were opened Feb. 14 for construction of six bridges (and contracts awarded to lowest bidders). The following figures are for the entire work, complete: (a) for Allens Lane bridge over Wissahickon Creek; (b) new west approach to Spring Garden St. bridge over Schuylkill River; (c) Sedgley Ave. bridge over Philadelphia & Reading Railway Co.'s tracks; (d) Wyoming Ave. bridge over Philadelphia, Newtown & New York Railroad Co.'s tracks; (e) substructure of 25th St. under connecting railway; (f) Front St. bridge over main tracks of connecting railway: (AA) New Jersey Bridge Co., Fuller Bldg., New York, (b) $95,924, (c) $33,899, (f) $37,007; (BB) Owego Bridge Co., Owego, N. Y., (b) $92,110, (c) $30,910, (f) $37,910; (CC) Richard Walsh, 5922 Tacony St., Philadelphia, (b) $102,481; (c) $28,385, (d) $31,827, (e) $344,367, (f) $33,735; (DD) McGaw & Gray, 710 Penn Bldg., Philadelphia, (a) $27,000, (b) $107,300, (c) $34,600, (d) $36,800, (e) $55,900, (f) $37,000; (FF) Wm. H. Millard, 800 Arcade Bldg., Philadelphia, (a) $26,400, (b) $99,500, (c) $34,800, (d) $36,300, (e) $53,650, (f) $37,775; (GG) David McMahon, Germantown, Pa., (a) $24,400, (d) $36,400; (HH) Wm. L. Gallagher & Co., 1413 Porter St., Philadelphia, (a) $29,400, (c) $35,173, (d) $40,632, (e) $83,900; (II) Thomas Collins, Germantown, Pa., (a) $25,200; (JJ) Jacob Molenkof, Johnson St., Philadelphia, (a) $18,900, (c) $29,800, (f) $34,800; (KK) John A. Carter, 610 Penn Square Bldg., Philadelphia, (a) $29,328, (e) $83,784; (LL) J. H. Loukeheim, 328 Mint Arcade Bldg., Philadelphia, (a) $24,600, (d) $39,600, (e) $53,000; (MM) C. O. Struse & Sons, Walnut Lane, Manyunk, (a) $31,888; (NN) F. J. Boas, 14 South Broad St., Philadelphia, (a) $25,231; (OO) Henderson & Co. (Ltd.), 1221 Arch St.,

Philadelphia, (a) $25,970; (PP) Reilly & Riddle, 520 Perry Bldg., Philadelphia, (a) $25,000, (c) $35,478, (d) $39,096, (e) $63,385; (QQ) Hawman Bros., Reading, Pa., (a) $27,940, (d) $57,771; (RR) Appleton & Burrell, 1204 Chancellor St., Philadelphia, (a) $29,900; (SS) Smedley Construction Co., 712 Stephen Girard Bldg., Philadelphia, (d) $31,476; (TT) Filbert Paving & Construction Co., 818 Penn Bldg., Philadelphia, (d) $38,295; (UU) American Paving & Construction Co., 211 South Ninth St., Philadelphia, (d) $36,941; (VV) M. & J. B. McHugh, 607 Witherspoon Bldg., Philadelphia, (d) $40,500, (f) $35,500; (WW) McCormick & Co., 14 South Broad St., Philadelphia, (d) $33,475; (XX) J. W. Allison & Co., 1628 Land Title Bldg., Philadelphia, (d) $48,000; (YY) Eyre Construction Co., 900 Arcade Bldg., Philadelphia, (f) $39,028; (ZZ) David Peoples, 1000 Betz Bldg., Philadelphia, (e) $63,000, (f) $44,000; (ZZ1), Sparks & Evans, 14 South Broad St., Philadelphia, (e) $62,156. The itemized bids were as follows: (Bids on all items included all appurtenances.)

BUILDING.—City of Mex.—The government has decided to erect a building for the correctional school at Tlalpam, a suburb of this city.

PAVING.—Chihuahua.—A member of the council states that the sum of $200,000 will soon be spent on the paving of the principal streets of this place.

ELECTRIC LIGHT AND POWER PLANT.—Matamoras, Tamaulipas.—A local company has received the franchise for building an electric plant and has received a contract to light the city.

RAILROAD.—Ocotlán-Atotonilco, Jalisco.—The contract for the construction of the Ocotlán and Atotonilco branch of the Mexican Central has been awarded to BELL & SEMMENS.

POWER PLANT.—Monterey.—The Compañia Guadalupe de Los Reyes, operating in the Cosala district, is preparing to install a hydro-electric plant at the falls of the Piaxtla River. Plant will have capacity of 5,000 HP. and will cost $800,000.

connection with the Chihuahua & Pacific, a distance of about 165 miles. J. P. Hallihan is Chief Engineer.

MINING MACHINERY.—Uruachic, Chihuahua.—It is reported that John J. Watterson has decided to build a concentrating plant, reverberatory and refining furnaces at his mine in the Uruachic camp.

FLOUR MILL.—Saltillo, Coahuila.—The Compañia Herinera de Molinos de la Colmena has been organized in Saltillo, with a paid up capital of $100,000, to erect mills with a capacity for producing 77,000 lbs. of wheat flour daily.

RAILWAY CONSTRUCTION.—City of Mexico.—The Federal Government is having a plan prepared for the double-tracking of the National Tehuantepec Railroad, in order to accommodate the prospective traffic of the trans-isthmus line.

IRRIGATION.—Casas Grandes, Chihuahua.—The Mormon colony here is preparing to add 30,000 additional acres of cultivated land to the colony by constructing irrigation ca-

and construction will comm... as soon as details are settled. Otto ... of San Antonio, Tex., is Pres.

RAILWAY.—Ocotlán-Ato... It is reported that the Mex... Co. will construct at once a ... Ocotolan to Atotonilco, wh... be extended to Arandas. ... City of Mexico, is Ch. Engr.

ELECTRIC LIGHT PLANT ... huila.—Leading business m... subscribed $150,000 for the ... company to erect an electr... Torreon. All the machine... tracted for in the United S...

STARCH FACTORY.—A ... Brookline, Mass., writes that ... being formed to establish a ... somewhere in Mexico, and ... spond with firms who mak... making and erecting starch ...

GRADING.—Gomez Pala... SOUTER & SIMPSON have ... from the Mexican Central R...

BIDS RECEIVED FOR CONSTRUCTION OF SIX BRIDGES AT PHILADELPHIA, PA.

	(a) For Stone Masonry. Per cu. yd.	(a) For Concrete.	(a) For Telford Paving.	(a) For Grading.	(b) For Steel and Iron Work. Per lb.	(b) For Ashlar Faced Masonry. Per cu. yd.	(b) For Concrete Masonry. Per cu. yd.	(b) For Woodwork. Per 1,000 ft., B. M.	(c) For Steelwork. Per lb.	(c) For Concrete Masonry. Per cu. yd.	(c) For Woodwork. Per 1,000 ft., B. M.	(d) For Concrete Work. Per cu. yd.	(d) For Steelwork. Per lb.	(d) For Woodwork. Per 1,000 ft., B. M.	(d) For Asphalt Paving. Per sq. yd.	(e) For Concrete Masonry. Per cu. yd.	(e) For Rock Faced Ashlar Masonry. Per cu. yd.	(e) For Grading. Per cu. yd.	For Concrete Work. Per cu. yd.	For Steel or Iron Work. Per lb.
(AA)	.....	.....	.....	.....	$0.03½	$18.00	$8.50	$40.00	$0.03¼	$8.50	$40.00	.....	.....	.....	.....	.....	.....	.....	$8.50	$0.03¼
(BB)	.....	.....	.....	.....	.05	35.00	8.00	60.00	.05	8.00	.60	.....	.....	.....	.....	.....	.....	.....	8.00	.05
(CC)	.....	.....	.....	.....	.05	30.00	6.00	75.00	.05	6.00	.75	$4.00	$0.05	$50.00	$2.50	$4.00	$8.00	$1.00	4.25	.05
(DD)	$7.00	$6.50	$1.25	$1.05	.10	15.00	8.00	5?.00	.10	7.00	.50	7.50	.03	50.00	2.50	6.50	8.50	1.00	8.00	.10
(FF)	8.00	6.00	1.00	1.25	.06	20.00	9.00	100.00	.05	7.50	100.00	7.50	.03	100.00	2.25	7.00	10.00	.90	8.00	.05
(GG)	5.50	7.00	1.50	.75	.....	.....	.....	.....	.....	.....	.....	8.00	.07	40.00	3.50	.....	.....	.....	.....	.....
(HH)	11.00	8.00	1.00	.40	.....	.....	.....	.....	.04¾	8.60	50.00	8.00	.04½	50.00	2.00	8.00	18.00	.60	.....	.....
(II)	10.00	9.00	1.15	.45															7.00	.04
(JJ)	6.00	6.00	1.00	.50	.....	.....	.....	.....	.04	7.00	70.00	.....	.....	.....	.....	.....	.....	.....		
(KK)	6.50	8.00	2.25	2.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7.50	11.00	1.00		
(LL)	5.00	5.00	.75	1.00	.....	.....	.....	.....	.....	.....	.....	5.00	.03	60.00	2.50	7.50	11.00	1.00		
(MM)	7.30	7.00	.90	1.50																
(NN)	8.00	7.50	1.50	.60																
(OO)	10.50	6.00	1.50	.60																
(PP)	8.00	7.00	1.25	.50	.....	.....	.....	.....	.05	7.25	52.00	7.50	.03½	52.00	2.60	8.50	10.50	1.25		
(QQ)	4.00	4.00	1.00	.50	.....	.....	.....	.....	.....	.....	.....	5.00	.03	45.00	3.00					
(RR)	10.00	10.00	1.50	.75								6.00	.04	60.00	2.25					
(SS)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.50	.03	50.00	2.50					
(TT)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.00	$1.80 per 100	65.00	1.80					
(UU)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.25	.03½	60.00	2.25	.....	.....	.....	5.90	.04½
(VV)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7.50	.05	65.00	2.60					
(WW)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7.54	.03¾	90.00	2.00					
(XX)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10.50	.04½
(YY)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7.50	9.00	1.50	7.50	.06
(ZZ)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.50	10.00	1.00		
(ZaZa)	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....					

SEWER SYSTEM.—Manila, P. I.—J. F. Case, M. Am. Soc. C. E., Ch. Engr., Dept. of Sewer and Water-Works Construction, Manila, advises us that the following are the bids opened Jan. 12 by the Municipal Board for the construction of a system of sewers at Manila: (a) ATLANTIC, GULF & PACIFIC CO., New York, N. Y., and Manila (awarded contract); (b) Matson, Lord & Belser Co., San Francisco, Cal.; (c) Colonial Construction Co., Kansas City, Mo.:

WATER-WORKS AND SEWERAGE.—Durango.—The construction of water-works and sewerage for the city of Durango is under consideration. Estimated cost is about $200,000 gold.

OFFICE BUILDING.—Vera Cruz.—The Ward Line Steamship Co. proposes to erect a large office building in the city of Vera Cruz. Plans are now being prepared by architects of the company.

nals from Casas Grandes River, which will be dammed. Work will start as soon as the present floods subside.

STEEL BRIDGES.—City of Mexico.—The Mexican Central Ry. Co. is preparing to replace those bridges on the Coahuila & Pacific division which are in need of repair, with steel and iron structures. Lewis Kingman, City of Mexico, is Ch. Engr.

grade of that road for 30 miles north of Gomez Palacio, and to grade for new yards at that place, where new shops are to be built.

IRRIGATION.—Michoacan.—Francisco ... Garcia has been granted a concession by the Department of Fomento to use the waters of the Duero River for irrigating land in the Santiaguillo and Rinconada haciendas. It is intended to collect water during the rainy season, in immense storage reservoirs.

IRRIGATION.—Coahuila.—Fernando Duret, of the City of Mexico, representing Lic. Frumencio Fuentes, has applied for a concession to divert the waters of the Naza River for irrigation. It is intended to irrigate large tracts of land on the Rubio hacienda, for raising cotton.

CEMENT MACHINERY.—Nuevo Leon.—The contract for the machinery for the Cementos de Hidalgo, S. A., Co. has been awarded to HENRY SPECKMAN ENGINEERING CO., of Philadelphia. The works are located at the Hidalgo station, on the Mexican International Ry.

FLUME.—Nuevas Casas Grandes, Chihuahua.—M. Womer and L. E. Booker, who are interested in a lumber project near Nuevas Casas Grandes, expect to build a flume 40 or 50 miles long from the timber tract, in the Sierra Madre, to the town, for the transportation of logs. The logs will be shipped to El Paso, Texas, where saw mills will be erected.

MINING MACHINERY.—Ayutla, Jalisco.—The erection of a reduction plant to treat the ores of the Concepcion mine, owned by the Springfield-Mexican Mining Co., in the Ayutla district, is planned. John Burns of Pana, Ill., and Alva F. Shepherd, Geo. M. Morgan and Arthur Hay, of Springfield, Ill., are interested. G. H. Hereford is Gen. Mgr., with headquarters at Union de Tula, Jal.

RAILROAD.—Jalisco.—It is reported that the Mexican Central Co. has decided to build a line to compete with the road to be built by the Jalisco Railway Co. in the Autlan district. It is said the line will be built from a point on the Zapotlan branch of the Central, probably Sayula, to Autlan, and that it may be extended to the Mascota district. Lewis Kingman, City of Mexico, is Ch. Engr.

RAILWAY.—Nuevo Leon.—At a recent meeting of the stockholders of the Higueras mines, held at the offices of the company in Monterey, it was decided to construct a railway from the mine to the National Railroad, about four miles. In addition to this, cables and tramways will be installed to transport the ore from the workings to the railway. The capacity of the trams will be at least four hundred cars per day. The mines are located in the Higueras district.

WATER-WORKS AND SEWERS.—Monterey.—J. D. Schuyler, Consult. Engr., and G. S. Binckley, Constructing Engr., who will have charge of building the new water-works and sewer system in this city have arrived and active work will be pushed at once. A reservoir with a capacity of 2,000,000 gal-

BIDS RECEIVED AT MANILA, P. I., FOR CONSTRUCTION OF A SYSTEM OF SEWERS.

	(a)	(b)	(c)
11 tons 16-in. c. i. pipe, 4 specials, 1 bend (¼) 156 ft.	$40.00	$40.00	$49.75
27 tons 18-in. c. i. pipe, 8 specials, 3 bends (¼) 310 ft.	40.00	41.28	49.75
9 tons 24-in. c. i. pipe, 3 bends (¼) 70 ft.	40.00	49.41	49.75
219 tons 24-in. c. i pipe, flexible joint, 16 specials, 1,120 ft.	65.00	56.21	49.75
22 tons 30-in. c. i pipe 136 ft.	40.00	38.96	49.75
131 tons 36-in. c. i. pipe, 576 ft.	40.00	35.20	49.75
1,924 tons 42-in. c. i. pipe, cap, 3 specials, 6,500 ft.	40.00	35.31	49.75
84 cu. yds. concrete masonry at outlet to force main	20.00	72.39	23.75
61,000 lin. ft. piling for outlet section	.75	.89	.99
40,000 ft. B. M. lumber for caps and floor for outlet section	60.00	101.25	87.00
6,500 lin. ft. 42-in. c. i. pipe and specials in outlet section	20.00	15.00	12.50
1,308 lin. ft. 24-in. c. i. pipe, flexible joint and special, River crossing	30.00	50.00	38.71
103 lin. ft. c. i. pipe and specials, Binondo Estero crossing	40.00	26.22	10.13
102 lin. ft. c. i. pipe and specials, S. Jacinto Estero crossing	40.00	26.22	8.78
88 lin ft. c. i. pipe and specials, S Miguel Estero crossing	40.00	26.22	10.13
84 lin. ft. c. i. pipe, Tanduay Estero crossing	40.00	26.22	9.46
144 lin. ft. c. i. pipe, Luneta Estero crossing	40.00	26.22	9.46
223 lin. ft. c. i. pipe and specials, Trozo Estero crossing	40.00	22.46	10.13
213 lin. ft. c. i. pipe and specials, Meisic Estero crossing	40.00	22.46	10.13
156 lin. ft. c. i pipe and specials, Bilibid Estero crossing	40.00	22.46	9.46
212 l n. ft. c. i. pipe and specials, de la Reyna Estero crossing	40.00	22.46	10.13
330,000 cu. yds. earth excavation	1.59	1.76	1.69
19,000 cu. yds. concrete masry, except outlet section, arches of main sewers and flush tanks.	10.00	8.86	14.90
3,800 cu. yds. masry in arches and main sewers	11.00	9.83	15.75
3,040 cu. yds. brick masry, except in arches of main sewers and manholes	15.00	21.60	19.78
3,970 cu. yds. brick masry in arches of main sewers	20.00	17.50	19.78
1,120 cu. yds. brick masry in manholes	40.00	22.50	19.78
18,500 lin. ft. concrete invert blocks	.50	.455	.74
1,620 lin. ft. 24-in. diam. terra cotta pipe	2.68	4.28	4.54
8,850 lin. ft. 21-in. diam. terra cotta pipe	3.17	3.60	2.90
8,550 lin. ft. 18-in. diam. terra cotta pipe	2.10	2.65	2.25
8,800 lin. ft. 15-in. diam. terra cotta pipe	1.63	1.99	1.56
7,350 lin. ft. 12-in. diam. terra cotta pipe	1.06	1.36	1.03
18,040 lin. ft. 10-in. diam. terra cotta pipe	.86	1.06	.84
169,480 lin. ft. 8-in. diam. terra cotta pipe	.60	.735	.57
19,400 lin. ft. subdrain, 6-in. diam. terra cotta pipe	.44	.455	.36
9,300 lin. ft. 6-in. terra cotta stand pipe	.44	.47	.46
3,700 No. 6-in. terra cotta V-branches	1.44	1.71	1.69
3,630 No. 6-in. terra cotta ⅛ and ¼ bends	1.23	1.33	1.09
570 M. ft. foundation lumber under main sewers	50.00	46.10	43.00
300 M. ft. foundation lumber under terra cotta and c. i. pipe sewers	30.00	30.00	30.00
650 M. ft. sheeting and bracing lumber left in trench	25.00	25.00	25.00
550 cu. yds. gravel in place around 6-in subdrain	1.50	2.35	2.00
840 2-ft. manhole frames and covers	15.00	9.35	12.50
10 3-ft. c. i. manhole frame and covers	25.00	19.00	25.00
370 flush tanks	100.00	65.00	55.00
1,200 lin. ft. 4-in. terra cotta pipe	.32	.30	.25
400 4-in. terra cotta bends (¼)	.95	.75	.50
Total	$1,631,053	$1,650,790	$1,701,591

MEXICO.

The names of parties awarded contracts are printed in capital letters.

RAILROAD.—Indé Durango.—It is reported that the Durango Central may build a road to the Indé Mining District in the near future.

RAILROAD.—Juarez.—The Rio Grande, Sierra Madre & Pacific R. R. Co. will build a branch line 35 miles long from Temosachic to the large timber tract which is owned by W. C. Greene, who is also principal owner of the railroad in question. The survey has also been finished for the proposed extension of the main line from Casas Grandes to a

RAILROAD.—Panuco, Coahuila.—The Continental Copper Co., owner of mines at Panuco, has purchased the necessary rails to build about 75 kilometers of narrow-gage railroad. It has not been decided whether to connect with the National Ry. at Canela, or the International Ry. at Monclova. Contractors are preparing bids on both routes,

ions will be ...ructed near San Geronimo ... and one of ...000 gallons capacity will be built in ...ills near the city. Sewerage and ...mains will be laid simultaneously.

POWER ...—Durango.—Large reduction work ...hortly be installed at the Guadalaj... located in the district of ... is to b... Sherwood. The main plant plant of ...on wet crushing cyanide run by ... modern type, and will be ...ated fiv... generated at a plant situ... The en... ...tant on the Sistan River. machinery ...act for furnishing all the drum ... including a 50 HP. double COMPA... ...t, has been given to the Chihuahu... ...USTRIAL MEXICANA, of

RAILR... ...opes Randolph, of Tucson, Ariz., ... or E. H. Harriman, has secured ... ...us from the Mexican Government ... ...d a railway line through the western ... of Mexico. The builders will receive ... of $19,200 per mile; $240,000 was paid ... the concession. E. D. Cruise has been ...inted engineer in charge of the survey... headquarters at Guadalajara, and has ... ...orps of engineers in the field. The ro... to be built in four sections. The first ... extend from some convenient point on ... Cananea, Rio Yaqui & Pacific Railroad ... ...h is controlled by the Southern Pacific ... the City of Alamosa, Sonora, southeast... the City of Culiacan, Sinaloa. The second ... section will extend from Culiacan to Mazatlan. The third section extends from some convenient point on the line between Culiacan and Mazatlan, near the town of San Ignacio, to Tepic, in the territory of the same name. The fourth section will extend from Tepic to a convenient point on the Mexican Central between San Marcos and Guadalajara, the capital of Jalisco, to which city the Mexican Central extension reaches.

RAILWAY CONSTRUCTION.—Charles M. Pepper, Special Agent of the Department of Commerce and Labor, in a report to Congress on trade conditions in Mexico gives the following details regarding railway construction: "At the beginning of 1906 Mexico had approximately 10,500 miles of steam railways in operation. The renewal of activity in railroad building is notable. It is especially marked because of an active period of construction, extending over several years, there was an almost entire cessation. Main trunks and projected extensions were stopped entirely and only a few short spurs and local lines were built. The financial stability which the new monetary laws assured, and the certainty that the railroads would no longer be compelled to carry freight and passengers for fluctuating silver prices while meeting the interests on their bonds and other fixed charges in gold, provided the encouragement which was necessary to turn capital into these channels again. In consequence the country is entering on another era of railway construction. The importance of the present enterprises cannot be overestimated. For the next few years there promises to be a large addition to the capital invested in Mexican railways, and this will cause heavy purchases of steel rails, rolling stock and equipment. The revision of the tariff does not interfere or retard this form of development, since the free importation of material for five years, as provided in the general law, is not repealed.

GULF AND PACIFIC COAST SYSTEMS.

Longitudinal systems of railways are building or projected to afford through communication from the Rio Grande to the border of Guatemala. The completion of the line known as the Pan-American, which starts from the junction point of San Geronimo on the Tehuantepec National Railway and runs to the boundary, is now a matter of only 12 or 15 months. A through gulf line from the southeastern Texas border probably will be built in the near future, although the guaranty of the Mexican Government that no railway shall be permitted to bridge the Rio Grande for the next 20 years in competition with the merger or national system, in which it holds the controlling interest, stands as a bar to extensions from Texas along the gulf, unless it be set aside by the courts as unconstitutional or is modified to meet the new conditions. Several of the projects for local lines in eastern Mexico, for which concessions have been granted, will form ultimate links in a through longitudinal gulf line to Yucatan and possibly to Central America. Another projected road is the Mexican Central Line from Mexico City direct to the port of Tampico. After many surveys a feasible route with a maximum grade of 2½% and without extreme curvature has been found. The Mexican Central officials expect that the line will be completed within 30 months. Its special significance is that the distance will be little greater than that from the port of Veracruz to the City of Mexico, 265 miles, and the line is expected to enhance the importance of the port of Tampico by giving railway rates that will enable it to supply the whole central region with freight on equal terms with Veracruz. This competition may prove of ultimate benefit to shippers by reducing freight charges. The most important of the longitudinal projects, and one which is sure of realization, is along the Pacific coast. This is the extension of the Southern Pacific system from Guaymas, its present terminus on the Gulf of California, in Sonora, south through the states of Sinaloa and Jalisco and the territory of Tepic, connecting Mazatlan, San Blas and other ports reaching Guadalajara. A part of this system will also open up the Yaqui River Valley in Sonora and insure railway connection toward the northern border. The Kansas City, Mexico & Orient Ry. will be crossed at Fuente. The main line, 720 miles in length, is to be completed within seven years. The government has granted, in the form of cash subsidies and bonds, subventions to the amount of $7,500,000. The general direction, with Guadalajara considered as the starting point, is northwesterly, crossing the Sierra Madres east of the port of San Blas, thence northerly to Mazatlan, Culiacan and Alamos. At the latter place connection will be made with the Cananea, Yaqui River & Pacific Ry., which is now being built from Guaymas to Alamos. From Guaymas the Sonora Railway is in operation, crossing the international boundary at Nogales and connecting with the main line of the Southern Pacific Ry. at Benson, Ariz. Work is now under way on the lines in the states of Sonora and Sinaloa and the surveys have been completed for the entire route. The commercial significance of this road is great, for it will at once increase the opportunities of California and the Southwest for Mexican trade, and in time it will provide San Francisco with direct through communication to Mexico City.

INTEROCEANIC LINES.

The lines from ocean to ocean, or more correctly from the Pacific coast to the Gulf of Mexico, which are looked upon as of the highest importance to the country, have progressed very slowly. This is because of the enormous engineering difficulties presented in crossing the successive ranges of the Sierra Madres. The government has secured one through line in the southeastern region where the mountain ranges do not offer such serious hindrances. This is the Tehuantepec National Ry. across the Isthmus of Tehuantepec from Salina Cruz on the Pacific to Coatzacoalcos, on the Gulf. It is 190 miles in length.

THROUGH LINES.

The next through line from ocean to ocean that will be completed is the Mexican Central extension. This will place Manzanillo on the Pacific in communication with Tampico on the Gulf. The Mexican Central having bought the road from Manzanillo to Colima is now closing the gap between Tuxpam, the present terminus, and Colima, 50 miles distant. The government has spent many million dollars on the harbor works at Manzanillo, and provision has been made for Asiatic commerce. It has been the ambition of the government to provide a through railway to the important port of Mazatlan by securing the extension of the International Railroad from Durango, a distance of 200 miles. The government has been willing to grant liberal aid, and many projects have been formed, but capital has not yet embarked in the enterprise. To break the backbone of the Sierra Madres in this region is a task from which capitalists and railway builders shrink. The great engineering difficulties come after the eastern slopes have been climbed and the ocean is in sight, when it becomes necessary to make nevertheless the Orient line seems to have a reasonable assurance of ultimately getting through the mountain barriers. The Rio Grande, Sierra Madre & Pacific Railroad, which starts from El Paso and runs 160 miles west, is likely to be prolonged and in time form a junction with existing lines and their extensions in northern Sonora. One handicap to the early realization of the various railway projects is the scarcity of labor. The peons or agricultural classes do not of themselves furnish sufficient labor material. They are not steady workers and are not well fitted for railway building. Some of the larger companies, with the consent of the Mexican Government, are arranging for Japanese, who promise to meet all requirements.

RAILS AND OTHER MATERIAL FROM THE UNITED STATES.

There is every reason why the mills in the United States should supply substantially all the steel rails imported by Mexico during the next five years. The new lines for the most part are using the 75-lb. rail, and where old tracks are taken up and new ones substituted it is also in favor. The company building the Southern Pacific extentions in Sonora placed its first orders in Spain, as it was unable to have them filled satisfactorily in the United States. Belgian and German mills also have laid down rails in Tampico in 60 days, when the best that the Americans would promise was four months. But with a slight lessening of the extraordinarily active home demand, or with Mexico placed in the home category, the needs of the Mexican railroads should be supplied as promptly as those of the United States, both for new construction and for renewals. For the calendar year 1905 the imports of steel rails from the United States was 55,682 tons, valued at $1,486,000, as against 23,871 tons, valued at $663,000, in the preceding year. Bridge material and rolling stock must be furnished chiefly by the United States. The car-building industry in Mexico is in its infancy, and while it has good prospects, it is hardly considered a factor in the present demand. The Mexican railways, after holding off as long as possible, came into the market late in 1905 for new equipment and swelled the large orders with which the various shops in the United States were swamped. The demand for locomotives was not so pronounced as for cars, because very heavy orders had been placed in 1903 and 1904, the importations in the latter year having amounted to $1,738,000, while in 1905 the total reached only $273,000. Orders already given will increase the amount for the current year.

RESULTS FROM RAILROAD CONSTRUCTION.

A towfold result will come from the railroads which are now under construction, or the construction of which will begin soon, under responsible companies with the necessary capital already provided. In a country of almost unlimited mining resources the development of mines is bound to follow when new means of transportation or provided. This will be true of the present era, both as to main lines and as to spurs. Yet the chief commercial and industrial significance of Mexican railway construction during the next five or ten years will be not so much in its relation to the mining industry as to agricultural development. It will open up timber regions and large districts which are suitable for temperate and tropical farming. The consequent encouragement to colonization and immigration will mean more settlers, and more settlers will mean more goods to be bought. It is well for the American manufacturer to know what the Mexican market of the future offers, for then he may take more heed of the market of to-day."

CIVIL SERVICE EXAMINATIONS

ASST. GEOLOGIST.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on April 4, to fill vacancies in the positions of assistant geologist and geologic aid in the Geological Survey, at salaries ranging from $1,000 to $1,600 per year. Form 1312.

ASSAYER.—Chicago, Ill.—The U. S. Civil Service Commission, Washington, announces an examination on April 18, to fill a vacancy in the position of assayer of ores, Custom House Service, Chicago, Ill., at $2,000 per year. Form 1312.

TOPOGRAPHIC DRAFTSMAN.—Panama.—The U. S. Civil Service Commission announces an examination on April 4, to fill vacancies in the position of topographic draftsman, Department of Construction and Engineering, on the Isthmus of Panama, at salaries of $100 or $125 per month, the usual entrance salary being $100 per month. Form 1312.

STRUCTURAL STEEL DRAFTSMAN.—New York, N. Y.—The Municipal Civil Service Commission will hold an examination for the position of structural steel draftsman at $1,250 to $1,500 per year, on April 14. William F. Baker, Pres.

CONTRACT PRICES.

TUNNEL.—Boston, Mass.—Itemized bids were received on March 6 by the Boston Transit Commission for constructing Section Eight, of the Washington St. tunnel, as follows: (1) Bruno, Simonone & Petitti, 23 Court St., Boston; (2) Cranford Co., 52 Ninth St., Brooklyn, N. Y.; (3) W. H. Keyes & Co., 95 Milk St., Boston; (4) Fred. S. & A. D. Gore Corporation, 511-512 Old South Bldg., Boston; (5) Metropolitan Contg. Co., 95 Milk St., Boston; (6) Hugh Nawn Contracting Co., 82 Savin St., Roxbury; (7) Charles R. Gow Co., 79 Milk St., Boston; (8) Coleman Bros., 15 Court Sq., Boston; (9) Seely-Taylor Co., 913 Tremont Bldg., Boston; (10) PATRICK McGOVERN, 6 Beacon St., Boston (awarded contract); (11) James J. Coughlan Const. Co., 19 Worthington St., Boston.

BIDS RECEIVED ON MARCH 6 BY BOSTON TRANSIT COMMISSION FOR SECTION 8 OF WASHINGTON ST. TUNNEL.

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
25,000 cu. yds. of earth excavation...	$14.00	$6.40	$6.00	$6.08	$6.10	$6.00	$5.50	$4.50	$5.00	$5.65	$5.00
Removing and disposing of 400 cu. yds. of masonry consisting of cellar floors, etc., except that in Item (bb).....	30.00	4.00	7.50	5.00	6.00	6.00	5.00	6.00	5.00	5.00	7.00
Removing and disposing of 450 cu. yds. of concrete masonry and footing stones from the existing subway.....	50.00	25.00	14.00	15.00	15.00	10.00	15.00	20.00	10.00	10.00	10.00
Furnishing, hauling, and putting in place 9,000 cu. yds. of concrete for all purposes, except that in Item (cc).....	15.00	10.75	13.20	12.90	12.25	12.00	12.00	12.00	12.00	11.00	11.50
Furnishing, hauling, and putting in place around steel beams 200 cu. yds. of concrete.....	30.00	15.00	16.00	14.50	14.80	15.00	15.00	15.00	15.00	15.00	13.50
Furnishing and laying 200 cu. yds. of brick masonry	30.00	20.00	20.00	15.00	20.00	18.00	18.00	20.00	20.00	15.00	17.00
Laying 125 lin. ft. of 20-in. vitrified pipe for sewer	3.00	1.00	1.50	1.00	.50	2.00	2.00	1.50	4.00	1.50	1.25
Laying 175 lin. ft. of 10-in. and 12-in. vitrified pipe for sewer	2.00	.60	1.00	.50	.50	2.00	1.00	.60	2.00	1.00	1.25
Laying 100 lin. ft. of 6-in. and 8-in. vitrified pipe for sewer	2.00	.50	1.00	.30	.50	1.00	.50	.50	1.50	.75	1.00
Laying 20 lin. ft. of 3-in. or 4-in. vitrified pipe	2.00	.30	1.00	.20	.50	1.00	.25	.25	1.00	.25	.80
Setting in place and securing 300 tons of steel and iron weighing less than 6 lbs. per lin. ft.	30.00	16.00	20.00	15.00	16.00	12.00	15.00	15.00	15.00	13.50	18.00
Setting in place and securing 125 tons of steel and iron weighing 6 lbs. or more per lin. ft.	30.00	15.00	20.00	10.00	18.00	15.00	15.00	20.00	20.00	15.00	18.00
Furnishing, preparing and applying 5,000 sq. yds. of Portland cement mortar	1.00	.50	.60	.50	.40	.50	.40	.50	.50	.50	.40
Preparing and applying 5,000 sq. yds. of waterproof coating of pitch or asphalt.....	.75	.50	.50	.30	.35	.30	.50	.40	.40	.30	.40
Preparing and applying 20,000 sq. yds. of tarred felt, pitch, etc.....	.50	.27	.25	.25	.25	.30	.20	.20	.25	.25	.18
Underpinning, supporting, and protecting buildings, etc., and all other work and risks not covered by other items.....	150,000	134,100	85,000	80,179	48,300	52,500	45,000	63,000	50,000	42,150	47,000
Total	$713,965	$428,061	$389,782	$386,925	$343,170	$340,195	$321,295	$317,747	$314,020	$310,297	$297,641

Bids received on March 6 for furnishing steel work for Section Nine, Washington St. tunnel, Boston, were as follows: (1) Eastern Bridge & Structural Co., Sta. A, Worcester; (2) Belmont Iron Works, Washington Ave., Philadelphia; (3) L. F. Shoemaker Co., 712 Harrison Bldg., Philadelphia; (4) W. E. Clark & Co., 120 Milk St., Boston; (5) Berlin Construction Co., 131 State St., Boston; (6) American Bridge Co., 80 State St. Boston; (7) NEW ENGLAND STRUCTURAL CO., 110 State St., Boston (awarded contract); (8) Boston Bridge Works, 47 Winter St., Boston. Time of delivery called for by specifications: 1st instalment May 1, 1906; 2d instalment May 29, 1906; 3d instalment June 26, 1906:

	900,000 lbs. struc. steel, Price per lb.	45,000 lbs. cast steel, Price per lb.	Grand total
(1)	$.0329	$.065	$33,435
(2)	.0329	.06	33,435
(3)	.0324	.0324	30,618
(4)	.0323	.0323	30,523
(5)	.0315	.04	30,150
(6)	.0368	.048	*29,850
(7)	.03	.035	28,575
(8)	.0283	.0585	**28,102

*Time of delivery of first instalment, July 10, 1906; balance, Aug. 1, 1906.

**Time of delivery of first instalment, June 1, 1906; second, June 30, 1906; third, July 10, 1906.

CANAL LOCK, DAMS, ETC.—Lockport, Ill.—Bids were received on Feb. 14 by the Sanitary District of Chicago for the construction of a canal lock, movable dams and fender wall for water power depelopment near Lockport, Ill. The bidders were (1) HAYES BROS., Janesville, Wis. (awarded contract); total bid $318,335; (2) M. H. McGovern, Chicago, $344,579; (3) Page & Schnable, Chicago, $354,045; (4) Joseph J. Duffy, Lockport, $355,317. The itemized prices were as follows:

Bids in Detail for Construction of Canal Lock, Movable Dams, etc., for Water Power Development near Lockport, Ill.

	(1)	(2)	(3)	(4)
12,000 cu. yds. earth excavation	$0.40	$0.49	$0.30	$0.50
45,000 cu. yds. rock excavation	.90	.79	1.10	1.35
25,000 sq. ft. channeling in rock	.20	.19	.20	.30
12,000 cu. yds. No. 1 Port. cement concrete	5.30	5.98	6.30	5.00
19,000 cu. yds. No. 2 Port. cement concrete	4.60	5.45	5.60	4.75
1,000 cu. yds. No. 3 Port. cement concrete	3.80	5.25	4.00	4.50
1,300 sq. yds. granolithic surfaces	.60	.54	.60	1.00
950 sq. yds. brick lining for conduits	2.50	2.00	2.50	2.50
20,000 lbs. steel reinforcing rods	.02½	.02¾	.02¼	.02¾
750 lin. ft. gas pipe hand railing	1.20	1.10	1.10	1.25
20,000 lbs. extra structural steel	.06	.06	.05⅝	.07½
Extra steel castings and machy. steel, per lb.	.12	*.10½	.12	**.12
20,000 lbs. extra iron castings	.07	†.09½	.09	‡.11
Extra phosphor bronze and babbitt, per lb.	.55	.52½	.50	.60
65,000 ft. B. M. extra timber	60.00	***55.00	55.00	60.00
One pair head gates complete	2,135.00	2,231.00	2,125.00	2,443.75
One pair tail gates complete	4,425.00	4,636.00	4,415.00	5,077.25
One pair head guard gates complete	2,130.00	2,226.00	2,120.00	2,438.00
One pair tail guard gates complete	1,650.00	1,722.00	1,640.00	1,804.00
Machinery complete and erected in place for operating one pair of gates; two pair of gates, price for one pair of gates	675.00	7,025.00	6,690.00	7,600.00
Four tubular valves finished and erected in place	11,300.00	11,770.00	11,210.00	12,331.00
Two movable dams with all collateral work erected complete	59,000.00	61,761.00	58,820.00	64,702.00
Miscellaneous metal work, etc	3,700.00	3,874.00	3,690.00	4,059.00
For supporting and maintaining R. R. track	4,000.00	4,800.00	1,000.00	5,000.00
Operator's house for canal lock	340.00	357.00	340.00	500.00

*Forgings, 12½ cts. **Forging, 14 cts. †Plain, 4½ cts. ‡Plain, 5 cts. ***Fir, $45. Pine, $43.50.

For other Proposal Advertisements see pages 43, 44, 45, 46, 47, 48, of Advertisements and Construction News page 110.

SEWERS.

Mamaroneck, N. Y.

Sealed proposals for the construction of Sewers will be received by the Board of Trustees of the Village of Mamaroneck, Westchester County, N. Y., at the Village Rooms, until 8.30 o'clock p. m., the 2d day of April, 1906.

Approximately 1,730 feet of sewers are to be laid.

Each bid must be accompanied by a certified check for a sum equal to five (5) per cent. of the amount of the bid.

A Surety Company's bond for an amount equal to fifty (50) per cent. of the bid will be required.

The Board of Trustees reserves the right to reject any and all bids.

Plans and specifications may be seen and bidding forms obtained at the office of the Village Clerk, Mamaroneck, N. Y., or at the office of the Engineer, No. 5 Court street, White Plains, N. Y.

DANIEL WARREN,
President.

CHARLES W. BUCKTER, Clerk. 12-1t

WATER TUBE BOILERS AND STOKERS.

Cleveland, O., March 14th, 1906.

Plans, specifications and sealed proposals will be received at the office of the Secretary of the Board of Public Service, No. 105 City Hall, until 12 o'clock M., March 29th, 1906, for constructing, delivering and erecting two water tube boilers, each equipped with superheaters, chain grate, mechanical stokers, brick work and other appurtenances, at the Fairmount Pumping Station of the Water-Works Division of the Department of Public Service.

Plans and specifications may be seen, and blank proposals can be obtained, at the office of the Superintendent of Water-Works.

Each proposal must contain the full name of the party or parties making the same, and all persons interested therein, and must be accompanied by a certified check for $600.00, payable to the Board of Public Service, on a solvent bank in this City, as surety that if the proposal be accepted a contract will be entered into.

No proposal will be entertained unless made on the blanks furnished by the Superintendent and delivered at the office of the Secretary of the Board of Public Service, No. 105 City Hall, previous to 12 o'clock M. on the day specified.

The city reserves the right to reject any or all bids.

The Board of Public Service, by
W. J. SPRINGBORN,
President.

A. R. CALLOW,
Secretary. 12-1t

CITY OF HOLYOKE, Mass.—Invitation for Proposals for Sidewalk Composition.—The Board of Public Works of the City of Holyoke, Mass., will receive until 1.30 o'clock in the afternoon of Friday, April 6, 1906, sealed bids for furnishing ten thousand (10,000) gallons and as many more gallons of sidewalk composition, exclusive of coal tar, for use in the construction of its tar concrete sidewalks during the season of 1906 as it may order in writing. The bidder will submit samples of his composition, laboratory tests and complete specifications for the use thereof, and a guarantee that when used according to the specifications submitted it will meet all of the requirements as set forth in said specifications. Each bid must be accompanied by a certified national bank check or lawful currency of the United States in the sum of two hundred dollars ($200.00) in accordance with the requirements of the Revised Charter of the said city. Envelopes containing bids to be marked "Proposals for Sidewalk Composition." The right is hereby reserved to reject any or all bids and the further right to accept any that in the opinion of said Board may be for the best interests of the City of Holyoke.

Board of Public Works,
M. F. WALSH, Chairman,
GILBERT POTVIN, JR.,
WM. A. CHASE.

Attest: OSCAR C. FERRY,
Asst. Clerk. 12-1t

Holyoke, Mass, March 16, 1906.

SITUATIONS OPEN

WANTED.—Graduate civil engineer experienced in electric railroad construction and general municipal engineering. State age, experience and salary expected. Address "B. A. 12," Engineering News, New York. 12-2t

PERMANENT POSITION for draftsman familar with building construction and machinery. Must be a neat letterer, with good habits. College graduate preferred. State experience, salary expected and submit samples of work. Address "C. A. 12," Engineering News, New York. 12-1t

WANTED.—Graduate engineer with few months' experience in structural steel work, to take up reinforced concrete with large contracting company. Address "D. A. 12," Engineering News, New York. 12-1t

WANTED.—Several competent engineers and draftsmen capable of detailing and designing heavy structural work. Applicants will please state age, education, experience, references, salary expected and how soon they could report for duty. Address MR. J. L. HOLST, Bridge Engineer, N. Y. C. & H. R. R. R. Co., Room 1218, 335 Madison Avenue, New York City. 12-2t

WANTED.—Mechanical draftsman, one familiar with street railway special track work preferred. State age, experience and salary expected. Address all communications to J. C. CORNELIUS, 405 Wister St., Station G, Philadelphia, Pa. 12-1t

WANTED.—Civil engineer familiar with trigometrical and logarithmic computations; one familiar with street railway special track work preferred. State age, experience and salary expected. Address all communications to J. C. CORNELIUS, 405 Wister St., Station G, Philadelphia, Pa. 12-1t

WANTED.—Experienced structural draftsman, address BUFFALO STRUCTURAL STEEL COMPANY, Buffalo, N. Y., stating age, experience, references, salary expected, and when able to report. 12-2t

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